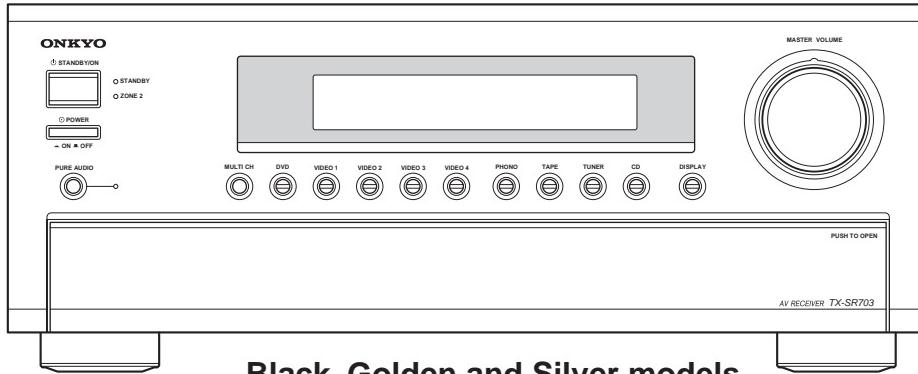


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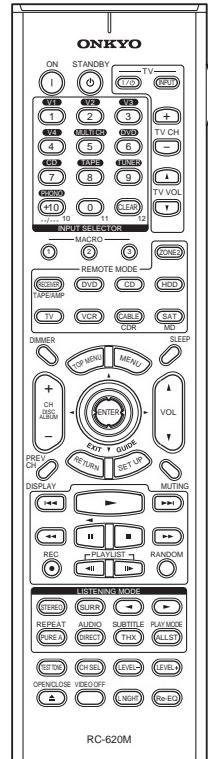
ONKYO SERVICE MANUAL

AV RECEIVER MODEL TX-SR703/E



Black, Golden and Silver models

BMDD,BMDC,SMDC	120V AC, 60Hz
BMPP,SMPP,BMPA,GMPA	230-240V AC, 50Hz
GMWT	120/220-230V AC, 50/60Hz
GMGK,GMGQ,GMGR	220-230V AC, 50Hz



RC-620M

SAFETY-RELATED COMPONENT WARNING!!

THE MARK FOUND ON SOME COMPONENT PARTS INDICATES THE CRITICAL FOR RISK OF FIRE AND ELECTRIC SHOCK.

WHEN REPLACING, BE SURE TO USE PARTS OF IDENTICAL DESIGNATION.

MAKE LEAKAGE-CURRENT OR RESISTANCE MEASUREMENTS TO DETERMINE THAT EXPOSED PARTS ARE ACCEPTABLY INSULATED FROM THE SUPPLY CIRCUIT BEFORE RETURNING THE APPLIANCE TO THE CUSTOMER.

SPECIFICATIONS

Amplifier Section

Power Output	
2 channels driven:	North American: 100 W + 100 W (8 Ω, 20 Hz-20 kHz, FTC) European: 130 W + 130 W (6 Ω, 1 kHz, DIN) Others: 160 W + 160 W (6 Ω, 1 kHz, JEITA)
Dynamic Power	230 W + 230 W (3 Ω, Front) 170 W + 170 W (4 Ω, Front) 115 W + 115 W (8 Ω, Front)
THD (Total Harmonic Distortion)	0.08% (Power Rated)
Damping Factor	60 (Front, 1 kHz, 8Ω)
Input Sensitivity and Impedance	200 mV/ 47 kΩ (LINE) 2.5 mV/47 kΩ (PHONO MM)
Output Level and Impedance	200 mV/ 470 Ω (REC OUT)
Phono Overload	70 mV (MM 1 kHz, 0.5%)
Frequency Response	10 Hz-100 kHz/+1 dB-3 dB (LINE) ±10 dB, 50 Hz (BASS) ±10 dB, 20 kHz (TREBLE)
Tone Control	106 dB (LINE, IHF-A) 80 dB (PHONO, IHF-A)
Signal to Noise Ratio	4 Ω min. or 6 Ω min.

Video Section

Input Sensitivity/Output Level and Impedance	1 Vp-p /75 Ω (Component and S-Video Y) 0.7 Vp-p /75 Ω (Component Pb/Cb,Pr/Cr) 0.28 Vp-p /75 Ω (S-Video C) 1 Vp-p /75 Ω (Composite)
Component Video Frequency Response	5 Hz - 100 MHz

Tuner Section

FM	
Tuning Frequency Range	North American: 87.5 MHz- 107.9 MHz Other: 87.5 MHz-108.0 MHz
Usable Sensitivity	Stereo: 22.2 dBf (75Ω IHF) Mono: 15.2 dBf (75Ω IHF)
Signal to Noise Ratio	Stereo: 67 dB (IHF-A) Mono: 73 dB (IHF-A)
THD	Stereo: 0.5% (1 kHz) Mono:0.3% (1 kHz)
Frequency Response	30 Hz-15 kHz/ ±1 dB
Stereo Separation	40 dB (1 kHz)

AM

Tuning Frequency Range	North American: 530 kHz-1710 kHz European: 522 kHz-1611 kHz Asian: 530/522 kHz-1710/1611 kHz
Usable Sensitivity	300 μV/m
Signal to Noise Ratio	40 dB

General

Power Supply	North American: AC 120 V, 60 Hz Australian and European: AC 230-240 V, 50 Hz Others: AC 120/220-240 V, 50/60 Hz AC 230-240 V, 50Hz AC 220-230 V, 50/60 Hz
Power Consumption	North American: 7.5 A Others: 680 W
Standby Power Consumption	North American: 0.1 W Australian and European: 0.2 W Others: 0.5 W
Dimensions (W × H × D)	435 × 173.5 × 430 mm 17-1/8" × 6-13/16" × 16-15/16"
Weight	North American: 13.3 kg 29.3 lbs. European: 13.5 kg 29.8 lbs. Others: 13.3 kg 29.3 lbs.

Video Inputs

Component	IN1, IN2, IN3
S-Video	DVD, VIDEO1, VIDEO2, VIDEO3, VIDEO4
Composite	DVD, VIDEO1, VIDEO2, VIDEO3, VIDEO4

Video Outputs

Component	OUT
S-Video	MONITOR OUT, VIDEO1, VIDEO2
Composite	MONITOR OUT, VIDEO1, VIDEO2

Audio Inputs

Digital Inputs	Optical: 5 (1 on Front Panel) Coaxial: 2
Analog Inputs	DVD (MULTICHANNEL), VIDEO1, VIDEO2, VIDEO3, VIDEO4, TAPE, CD, PHONO
Multichannel Input	7.1 ch (DVD)

Audio Outputs

Digital Output	Optical: 1
Analog Outputs	TAPE, VIDEO1, VIDEO2, ZONE2
Multichannel Pre Outputs	7.1 ch
Speaker Outputs	L, R, C, SL, SR, SBL, SBR
Phones	ZONE2 (L, R) 1

RS232	1 (Other than North American and Australian)
IR Input/Output	1/0
12 V Trigger Out	ZONE2

Specifications and features are subject to change without notice.

SERVICE PROCEDURES

1. Replacing the fuses



This symbol located near the fuses indicates that the fuse used is fast operating type. For continued protection against fire hazard, replace with same type fuse. For fuse rating refer to the marking adjacent to the symbol.



Ce symbole indique que le fusible utilise est a rapide. Pour une protection permanente, n'utiliser que fusibles de même type. Ce dernier est la qu le présent symbol est apposé.

CIRCUIT NO.	PART NO.	DESCRIPTION
F6901,F6902	252301GR	12A-TUL-250V,Fuse
F901	252079GR	6.3A-SE-EAK,Fuse <P/A/Q/R/K>
	252330GR	10A-UL/T-233, Fuse <D/C>
F902	252079GR	6.3A-SE-EAK Fuse <T>
F903	252075GR	2.5A-SE-EAK,Fuse <P/A/Q/R/K>
	252326GR	5A-UL/T-233,Fuse <D/C>
F931,F932	252073GR	1.6A-SE-EAK,Fuse
F951,F952	252079GR	6.3A-SE-EAK,Fuse

Note: <D>:120V model only

<P>: European model only

<Q/R/K>: 230V model only

<T>:Worldwide model only

<A>: Australian model only

2. To initialize the unit

This device employs a microprocessor to perform various functions and operations. If interference generated by an external power supply, radio wave, or other electrical source results in accident which causes the specified operations and functions to operate abnormally.

To perform a result, please follow the procedure below.

- 1.Press and hold down the VIDEO-1 button, then press the STANDBY button.
- 2.After "Clear" is displayed, the preset memory and each mode stored in the memory, such as surround, are initialized and will return to the factory setting.

3. Safety-check out

(U.S.A. model only)

After correcting the original service problem, perform the following safety check before releasing the set to the customer.

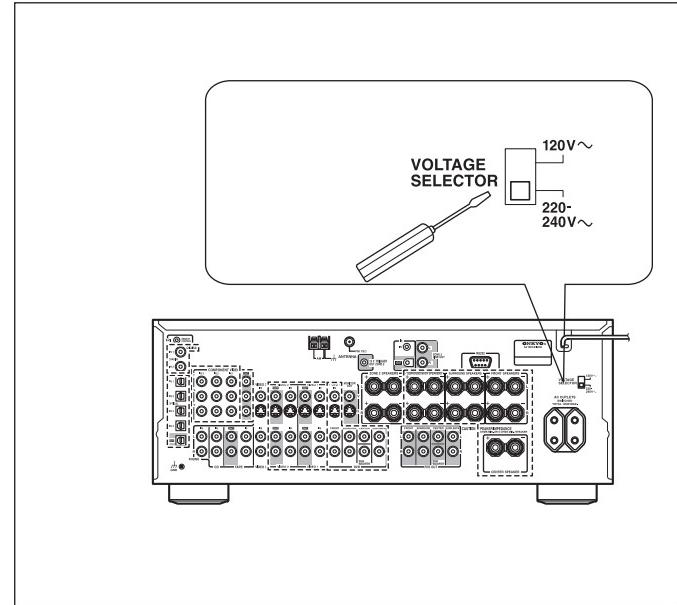
Leakage Current Check

Measure leakage current to a known earth ground(water pipe, conduit, etc.) by connecting a leakage current tester between the earth ground and exposed metal parts of the appliance (input/output terminals, screwheads,metal overlays, etc.).

4. Setting the Voltage selector (Worldwide models only)

Worldwide models are equipped with a voltage selector to conform with local power supplies. Be sure to set this switch to match the voltage of the power supply in your area before plugging in the unit.

1. Determine the proper voltage for your area: 220-240 V or 120 V.
2. If the preset voltage is not correct for your area, insert a screwdriver into the groove in the switch. Slide the switch all the way to the right (120 V) or to the left (220-240 V), whichever is appropriate.

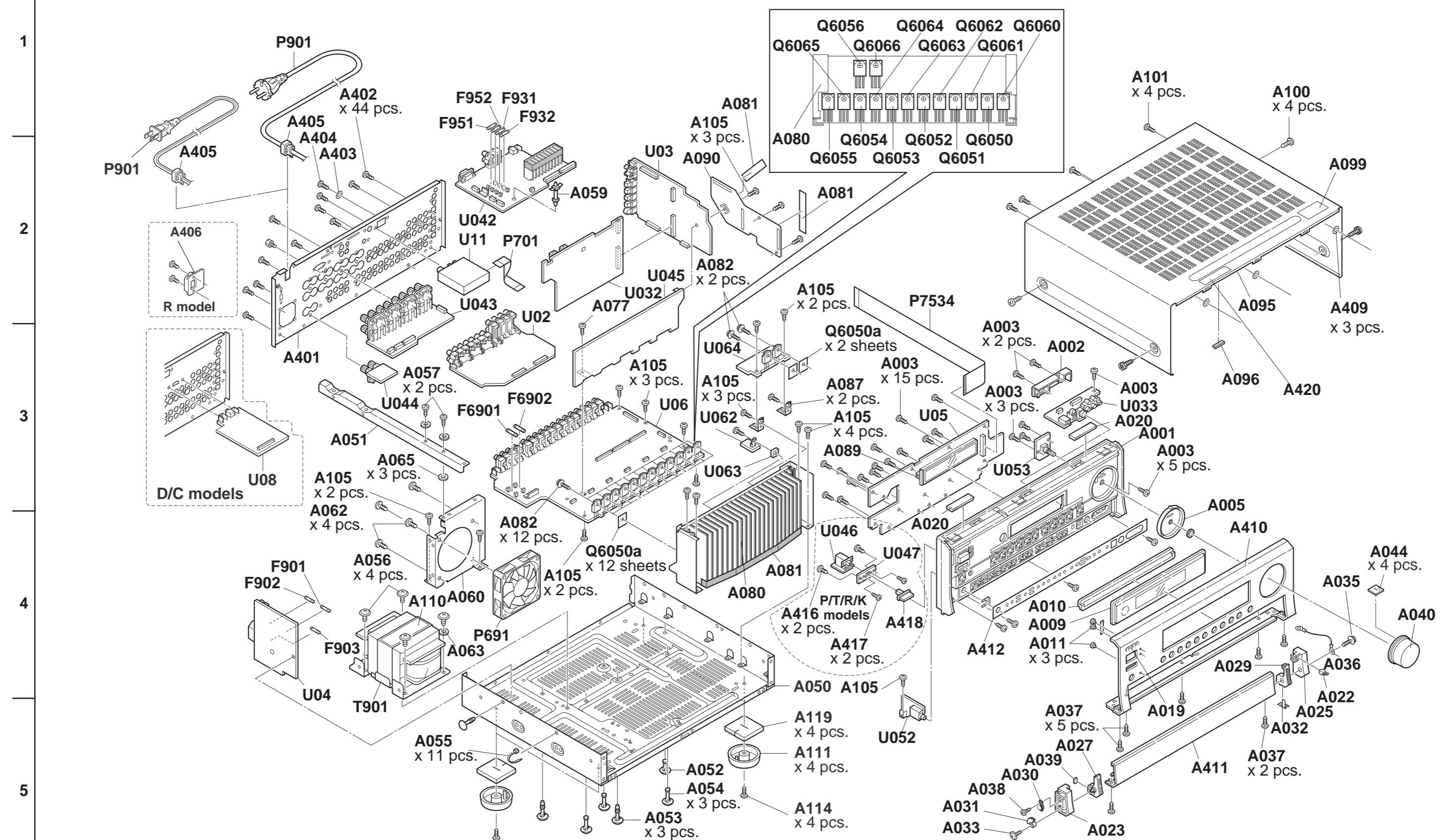


5. Changing the AM band step

With the exception of the worldwide models, a tuning step selector switch is not provided. When you change the band step, change the parts as shown below.

	To 10kHz	To 9kHz
R714	Open	10 k

EXPI QDEF VIEW



EXPLODED VIEW-PARTS LIST

NOTE: THE COMPONENTS IDENTIFIED BY MARK !
 ARE CRITICAL FOR RISK OF FIRE AND
 ELECTRIC SHOCK. REPLACE ONLY WITH
 PART NUMBER SPECIFIED.

CAUTION: Replacement for transistor of mark *, if necessary
 must be made from the same beta group (hFE) as
 the original type.

NOTE: : Black model only <G>: Golden model only <S>: Silver model only
 <D>: USA model only <P>: European model only <A>: Australian model only
 <T>: Worldwide model only <R>: Chinese model only <C>: Canadian model only
 <K>: Korean model only <Q>: Hongkong model only
 <NSP>: No spare part

REF.NO.	PART NO.	DESCRIPTION
A001	27111421B	Front bracket
	27111422B	Front bracket <S>
	27111423B	Front bracket <G>
A002	27191153B	Holder, Jack
A003	801618	3TTB+8B(CU)SR,Screw
A005	28200006	Facet, volume
A009	28192074	Clear plate
	28192075	Clear plate <S/G>
A010	27215374	Decorative frame
	27215375	Decorative frame <S>
	27215376	Decorative frame <G>
A011	28198905	Facet
A019	28135244	Badge
	28135245	Badge <G>
	28135298	Badge <S>
A020	28141562	t5*30*5,Cushion
A022	27230047	091Y,Push latch
A023	27191173	Holder L
	27191174	Holder L <S/G>
A025	27191175	Holder R
	27191176	Holder R <S/G>
A027	28180156	Hinge L
	28180157	Hinge L <S/G>
A029	28180158	Hinge R
	28180159	Hinge R <S/G>
A030	27301947	B20B, Damper
A031	27301946	Gear
A032	27141828A	Retainer B
A033	831430088GR	3TTW+8B(3BC),Screw
A035	801433GR	3SMS8W.SW+14B(BC),Screw
A036	2061112100UL	TCW21,Cord As
A037	838430088GR	3TTB+8B(3BC),Screw
A038	838120088GR	2TTB+8B(3CM),Screw
A039	28141511	t1.0*5*5,Cushion
A040	28326232	Knob, volume
	28326234	Knob, volume <G>
	28326436	Knob, volume <S>
A044	28141637	Cushion
A050	27100468A	NSP Chassis
A051	27130991A	
A052	27190470	KGLS-18S,Holder
A053	27190524	KGLS-14RT,Holder
A054	27190991	Holder
A055	260208	BSK-1,Wire tie
A056	830440089GR	4TTC+8C(3BC),Screw
A057	801618	3TTB+8B(CU)SR,Screw
A059	27190802	KGPS-14RF,Holder
A060	27130990	Bracket, fan
A062	838450108GR	5TTB+10B(3BC),Screw
A063	27270439	Spacer
A064	27190608-1	Holder, clamer
A065	27270147	8X3X0.188,Spacer
A077	801612	3TTB+8B(CU),Screw
A080	27160565A	Heat sink
A081	29110083	Tape, cloth

A082	801606	3SMH10W.SW+15B(CU),Screw
A087	27130745	Bracket
A089	28141585	W15*3t,Cushion
A090	27150507	Shield plate FFC
A092	801612	3TTB+8B(CU),Screw
A095	28184952	Top cover
	28184953	Top cover <S>
	28184954	Top cover <G>
A096	28141563	t3*50*10,Cushion
A099	29364123	Label, cover
A100	838240089	4TTB+8C(NI),Screw <S/G>
	838440089GR	4TTB+8C(3BC),Screw
A101	838430088GR	3TTB+8B(3BC),Screw
	838930088GR	3TTB+8B(UN),Screw <S/G>
A105	801618	3TTB+8B(CU)SR,Screw
A110	29363379-1	Label PT
A111	27175418	Leg
A114	838430088GR	3TTB+8B(3BC),Screw
A115	27255004	CS-1U,Clip
A119	28141647	Cushion
A401	27123469	Rear panel <D/C>
	27123470	Rear panel <P>
	27123471	Rear panel <K>
	27123472	Rear panel <T>
	27123473	Rear panel <R>
	27123474	Rear panel <A>
	27123475	Rear panel <Q>
A402	838430088GR	3TTB+8B(3BC),Screw
A403	87643010GR	W3*10F(3BC),Washer
A404	838930088GR	3TTB+8B(UN),Screw
A405	27300750	#2271,Bushing <D/C/P/A/R/K>
	27301927	Bushing <Q/T>
A406	27191130	Holder, outlet <R>
A409	27270463	T0.5*Φ8*Φ3.5,Spacer
A410	27212820	Front panel <D/C/A>
	27212834	Front panel <P>
	27212835	Front panel <S> <C/A>
	27212836	Front panel <S> <P>
	27212837	Front panel <G>
A411	28148623	Door <D>
	28148624	Door <P>
	28148625	Door <S> <C>
	28148626	Door <S> <P>
	28148627	Door <G>
	28148632	Door <A>
	28148633	Door <S> <A>
A412	27262749	Plate, door <D/C/A>
	27262750	Plate, door <S> <C/A>
	27262751	Plate, door <G>
	27262753	Plate, door <P>
	27262754	Plate, door <S> <P>
A416	801618	3TTB+8B(CU)SR,Screw <P/Q/R/K/T>
A417	82143010GR	3P+10FN(3BC),Screw <P/Q/R/K/T>
A418	28326340	Knob, power <S> <P>
	28325497A	Knob, power <P>
	28325499A	Knob, power <G>
A420	29363194	Labl HOOKUP <D>
F6901,F6902	252301GR	! 12A-TUL-250V,Fuse
F901	252079GR	! 6.3A-SE-EAK,Fuse <P/A/Q/R/K>
	252330GR	! 10A-UL/T-233, Fuse <D/C>
F902	252079GR	! 6.3A-SE-EAK Fuse <T>
F903	252075GR	! 2.5A-SE-EAK,Fuse <P/A/Q/R/K>
	252326GR	! 5A-UL/T-233,Fuse <D/C>
F931,F932	252073GR	! 1.6A-SE-EAK,Fuse
F951,F952	252079GR	! 6.3A-SE-EAK,Fuse
P691	24502319	D09A-12PG(EX),Fan
P701	2047131012	NCFC7-131012,FFC
P7534	2045405012	NCFC5-405012,FFC
P901	253368LTK or	! AS-UC-2 or
	253333VOL	! AS-UC-2, Power supply cord <D/C>

	253388LTK or	!	AS-SAA or
	253388FJK or	!	AS-SAA or
	253388HIT or	!	AS-SAA or
	253388LON	!	AS-SAA, Power supply cord <A>
	253374LTK or	!	AS-CEE-2 or
	253233KAW or	!	AS-CEE-2 or
	253306VOL	!	AS-CEE-2,Power supply cord <P>
	253198LTK or	!	AS-BS or
	253198VOL	!	AS-BS,Power supply cord <Q>
	253355VOL or	!	AS-CCC or
	253377LTK	!	AS-CCC,Power supply cord <R>
	253406VOL	!	AS-KS,Power supply cord <K>
	253348VOL	!	AS-CEE-3,Power supply cord <T>
P921	25052665		NSCT-2P2561,AC outlet <K>
Q6050,Q6051,Q6052	2203686 or	*	MN150S-P or
Q6053,Q6054,Q6055	2203683 or	*	MN150S-O or
Q6056	2203684	*	MN150S-Y,Transistor
Q6050A	223024		AC238,Isolated sheet
Q6060,Q6061,Q6062	2203696 or	*	MP150S-P or
Q6063,Q6064,Q6065	2203693 or	*	MP150S-O or
Q6066	2203694	*	MP150S-Y, Transistor
T901	2301830	!	NPT-1526D,Power transformer <D/C>
	2301831	!	NPT-1526P,Power transformer <A/P>
	2301832	!	NPT-1526DQ,Power transformer <T>
	2301833	!	NPT-1526G,Power transformer <Q/R/K>
U02	1B104557-1A		NAVD-8657-1A, Video circuit PC board ass'y <D/C>
	1B104557-1B		NAVD-8657-1B, Video circuit PC board ass'y <P/A/Q/R/K/T>
U03	1B104560-1G		NADG-8660-1G, DSP circuit PC board ass'y <D/C>
	1B104560-1H		NADG-8660-1H, DSP circuit PC board ass'y <A>
	1B104560-1J		NADG-8660-1J, DSP circuit PC board ass'y <Q/R/K>
	1B104560-1K		NADG-8660-1K, DSP circuit PC board ass'y <P>
	1B104560-1N		NADG-8660-1N, DSP circuit PC board ass'y <T>
U032	1B104561-1G		NAAR-8661-1G,Main micropocessor PC board ass'y <D/C>
	1B104561-1H		NAAR-8661-1H,Main micropocessor PC board ass'y <A>
	1B104561-1J		NAAR-8661-1J,Main micropocessor PC board ass'y <Q/R/K>
	1B104561-1K		NAAR-8661-1K,Main micropocessor PC board ass'y <P>
	1B104561-1N		NAAR-8661-1N,Main micropocessor PC board ass'y <T>
U033	1B104562-1G		NAETC-8662-1G, Front video PC board ass'y <D/C>
	1B104562-1H		NAETC-8662-1H, Front video PC board ass'y <A>
	1B104562-1J		NAETC-8662-1J, Front video PC board ass'y <Q/R/K>
	1B104562-1K		NAETC-8662-1K, Front video PC board ass'y <P>
	1B104562-1N		NAETC-8662-1N, Front video PC board ass'y <T>
U034	1B104563-1G		NAETC-8663-1G, Holder PC board ass'y <D/C>
	1B104563-1H		NAETC-8663-1H, Holder PC board ass'y <A>
	1B104563-1J		NAETC-8663-1J, Holder PC board ass'y <Q/R/K>
	1B104563-1K		NAETC-8663-1K, Holder PC board ass'y <P>
	1B104563-1N		NAETC-8663-1N, Holder PC board ass'y <T>
U04	1B104564-1J		NAPS-8664-1J, Primary circuit PC board ass'y <D/C>
	1B104564-1K		NAPS-8664-1K, Primary circuit PC board ass'y <A>
	1B104564-1L		NAPS-8664-1L, Primary circuit PC board ass'y <T>
	1B104564-1M		NAPS-8664-1M, Primary circuit PC board ass'y <K>
	1B104564-1N		NAPS-8664-1N, Primary circuit PC board ass'y <R>
	1B104564-1P		NAPS-8664-1P, Primary circuit PC board ass'y <P/Q>
U042	1B104565-1J		NAPS-8665-1J, Secondary circuit PC board ass'y <D/C>
	1B104565-1K		NAPS-8665-1K, Secondary circuit PC board ass'y <A>
	1B104565-1L		NAPS-8665-1L, Secondary circuit PC board ass'y <T>
	1B104565-1M		NAPS-8665-1M, Secondary circuit PC board ass'y <K>
	1B104565-1N		NAPS-8665-1N, Secondary circuit PC board ass'y <R>
	1B104565-1P		NAPS-8665-1P, Secondary circuit PC board ass'y <P/Q>
U043	1B104566-1J		NAETC-8666-1J, Speaker terminal PC board ass'y <D/C>
	1B104566-1K		NAETC-8666-1K, Speaker terminal PC board ass'y <A>
	1B104566-1L		NAETC-8666-1L, Speaker terminal PC board ass'y <T>
	1B104566-1M		NAETC-8666-1M, Speaker terminal PC board ass'y <K>
	1B104566-1N		NAETC-8666-1N, Speaker terminal PC board ass'y <R>
	1B104566-1P		NAETC-8666-1P, Speaker terminal PC board ass'y <P/Q>
U044	1B104567-1J		NAETC-8667-1J, Speaker terminal C PC board ass'y <D/C>
	1B104567-1K		NAETC-8667-1K, Speaker terminal C PC board ass'y <A>
	1B104567-1L		NAETC-8667-1L, Speaker terminal C PC board ass'y <T>
	1B104567-1M		NAETC-8667-1M, Speaker terminal C PC board ass'y <K>
	1B104567-1N		NAETC-8667-1N, Speaker terminal C PC board ass'y <R>

U045	1B104567-1P 1B104568-1J 1B104568-1K 1B104568-1L 1B104568-1M 1B104568-1N 1B104568-1P	NAETC-8667-1P, Speaker terminal C PC board ass'y <P/Q> NAAF-8668-1J, Driver circuit PC board ass'y <D/C> NAAF-8668-1K, Driver circuit PC board ass'y <A> NAAF-8668-1L, Driver circuit PC board ass'y <T> NAAF-8668-1M, Driver circuit PC board ass'y <K> NAAF-8668-1N, Driver circuit PC board ass'y <R> NAAF-8668-1P, Driver circuit PC board ass'y <P/Q>
U046	1B104569-1L 1B104569-1M 1B104569-1N 1B104569-1P	NASW-8669-1L, Power switch PC board ass'y <T> NASW-8669-1M, Power switch PC board ass'y <K> NASW-8669-1N, Power switch PC board ass'y <R> NASW-8669-1P, Power switch PC board ass'y <P/Q>
U047	1B104570-1L 1B104570-1M 1B104570-1N 1B104570-1P	NAETC-8670-1L, Holder PC board ass'y <T> NAETC-8670-1M, Holder PC board ass'y <K> NAETC-8670-1N, Holder PC board ass'y <R> NAETC-8670-1P, Holder PC board ass'y <P/Q>
U049	1B104572-1M	NAETC-8672-1M, AC outlet PC board ass'y <K>
U05	1B104575-1D	NADIS-8675-1D, Display circuit PC board ass'y
U052	1B104576-1D	NAETC-8676-1D, Headphone terminal PC board ass'y
U053	1B104577-1D	NAETC-8677-1D, Volume PC board ass'y
U06	1B104578-1D	NAAF-8678-1D, Amplifier PC board ass'y
U062	1B104580-1D	NAETC-8680-1D, Thermal detector PC board ass'y
U063	1B104581-1D	NAETC-8681-1D, Holder PC board ass'y
U064	1B104582-1D	NAAF-8682-1D, Surround back amplifier PC board ass'y
U08	1B104588-1A	NARF-8688-1A, XM radio PC board ass'y
U11	240152 or 240156 240154 240155	FAE385-A11US or ENG06507QFUS, FM/AM tuner <D/C> FAE485-E11EU, FM/AM tuner <P> FAE485-E12EX, FM/AM tuner <A/Q/R/K/T>

PACKING VIEW-PARTS LIST

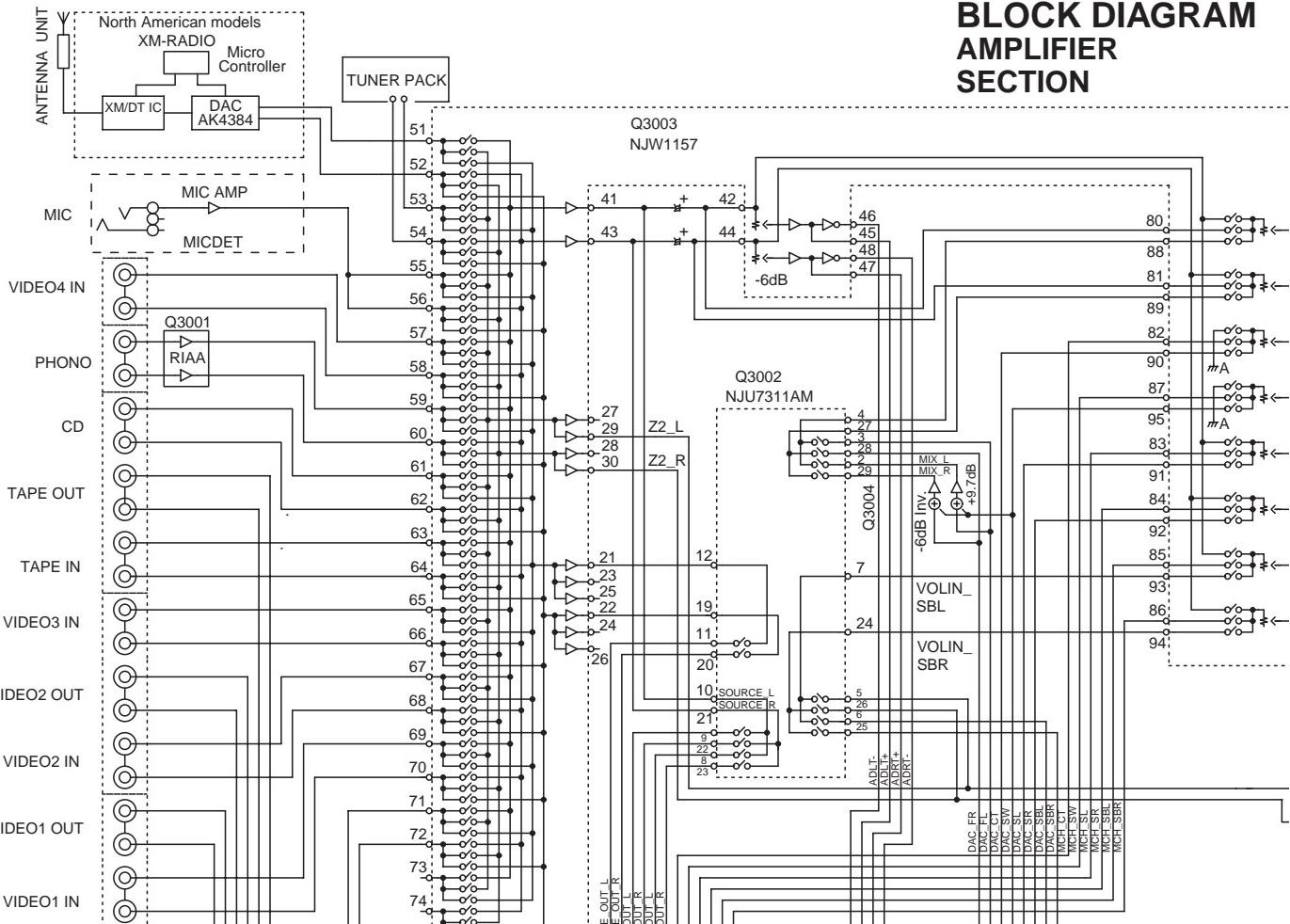
REF. NO.	PART NO.	DESCRIPTION
A601	29092286A	Pad
A603	29054470	Carton
A606	29095906	Sheet
A607	29363059A	Label, speaker cable
A610	29100153	1020x770, Polybag
A611	29110149	Tape, cellophane
A612	29110148	Tape PP
A613	29100238	T0.05*650*100, Polybag
A630	29100097-1A	350*250, Polybag
A650	29054426	Carton box <A>
	29054427	Carton box <S> <A>
	29054428	Carton box <G> <Q/K/T>
	29054429	Carton box <P>
	29054430	Carton box <S> <P>
	29054454	Carton box <D/C>
	29054455	Carton box <S> <C>
	29054457	Carton box <G> <R>
A651	29363243	Label <C>
A655	29364220	Label EAN <A>
	29364221	Label EAN <S> <A>
	29364222	Label EAN <G>
	29364223	Label EAN <P>
	29364224	Label EAN <S> <P>
	29364226	Label UPC <D/C>
	29364227	Label UPC <S> <C>
A670	29365090C	Warranty card <D/C>
	29365099	Warranty card <Q>
	29365098A	Warranty card <R>
A675	29380140	Leaflet DS-A1<D/C>
	29380141	Leaflet DS-A1<P>
A812	29344073	Instruction manual En
A813	29344074	Instruction manual U2FrEs <P/C>
	29344077	Instruction manual Cs <R>
	29344078	Instruction manual Ct <Q/T>
	29344079	Instruction Manual En-DIG <D>
A814	29344075	Instruction manual U2ltDe <P>
A815	29344076	Instruction manual U2NISv <P>
A818	29355537	Instruction sheet WEEE <P>
A826	29344100	Instruction manual U9

A827	29355538	Instruction sheet XM <D/C>
A831	24140620	RC-620M,Remote controller
A841	3010358	LR6/AA(UM-3),Battery
A843	232140	NMA-3057,AM loop antenna
A844	29100097-1A	350*250,Polybag for printed matter <P>
A845	292191	FM antenna
A846	25056005	CV-K-1,Conversion plug <T>
A847	29100217	t0.1*70*100,Polybag
U012	1B068MIC	MIC-5000,Setup microphone

A**B****C****D**

BLOCK DIAGRAM AMPLIFIER SECTION

1

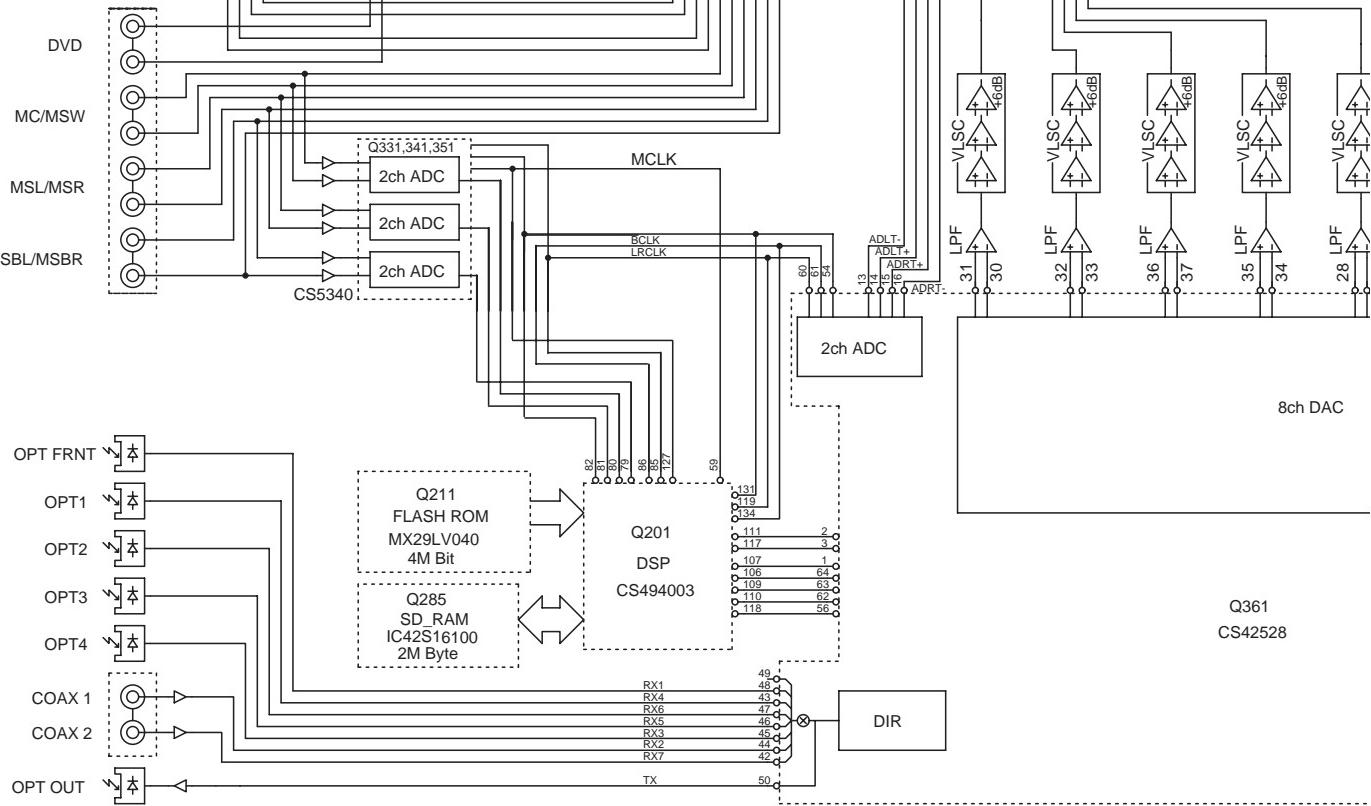


2

3

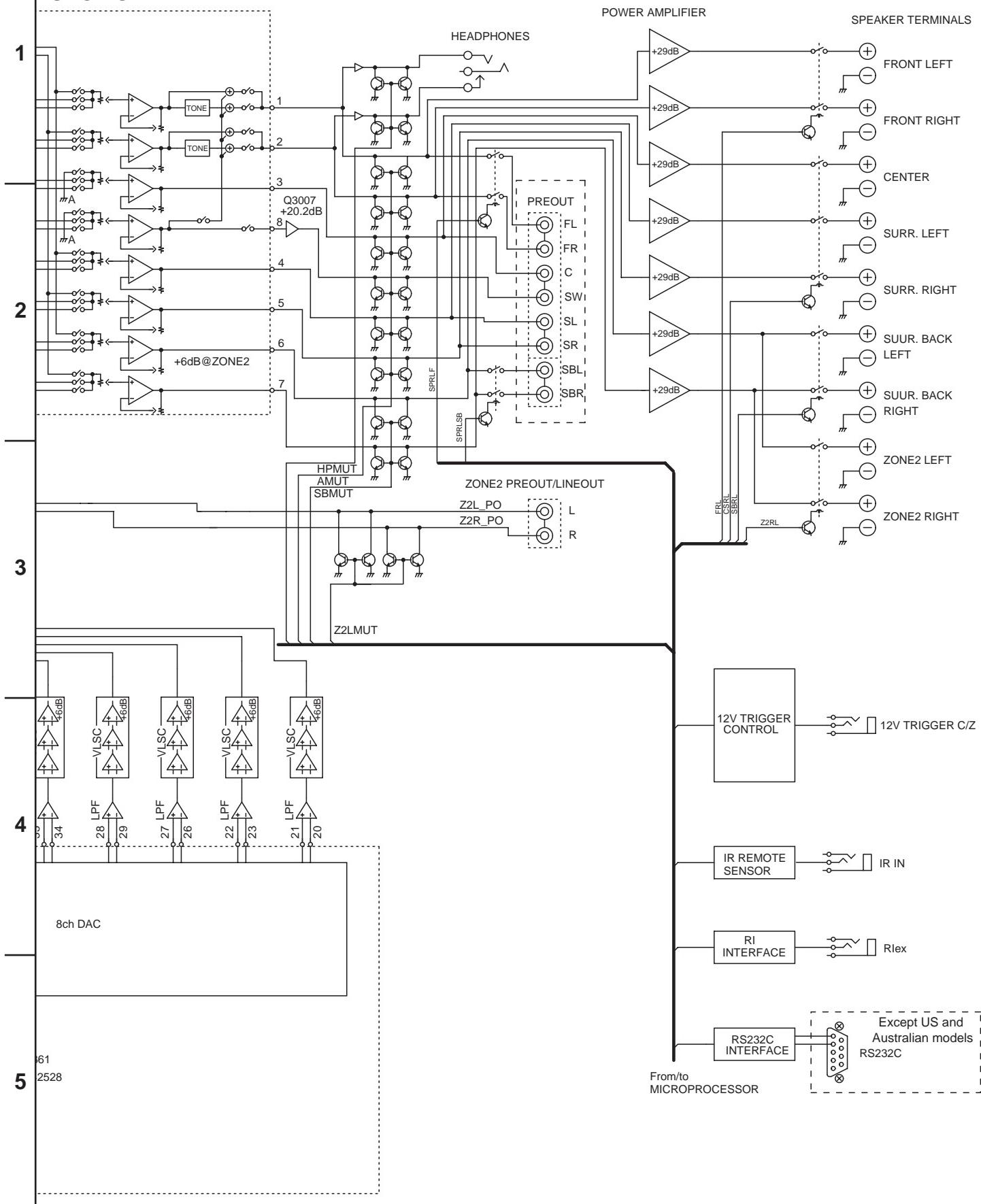
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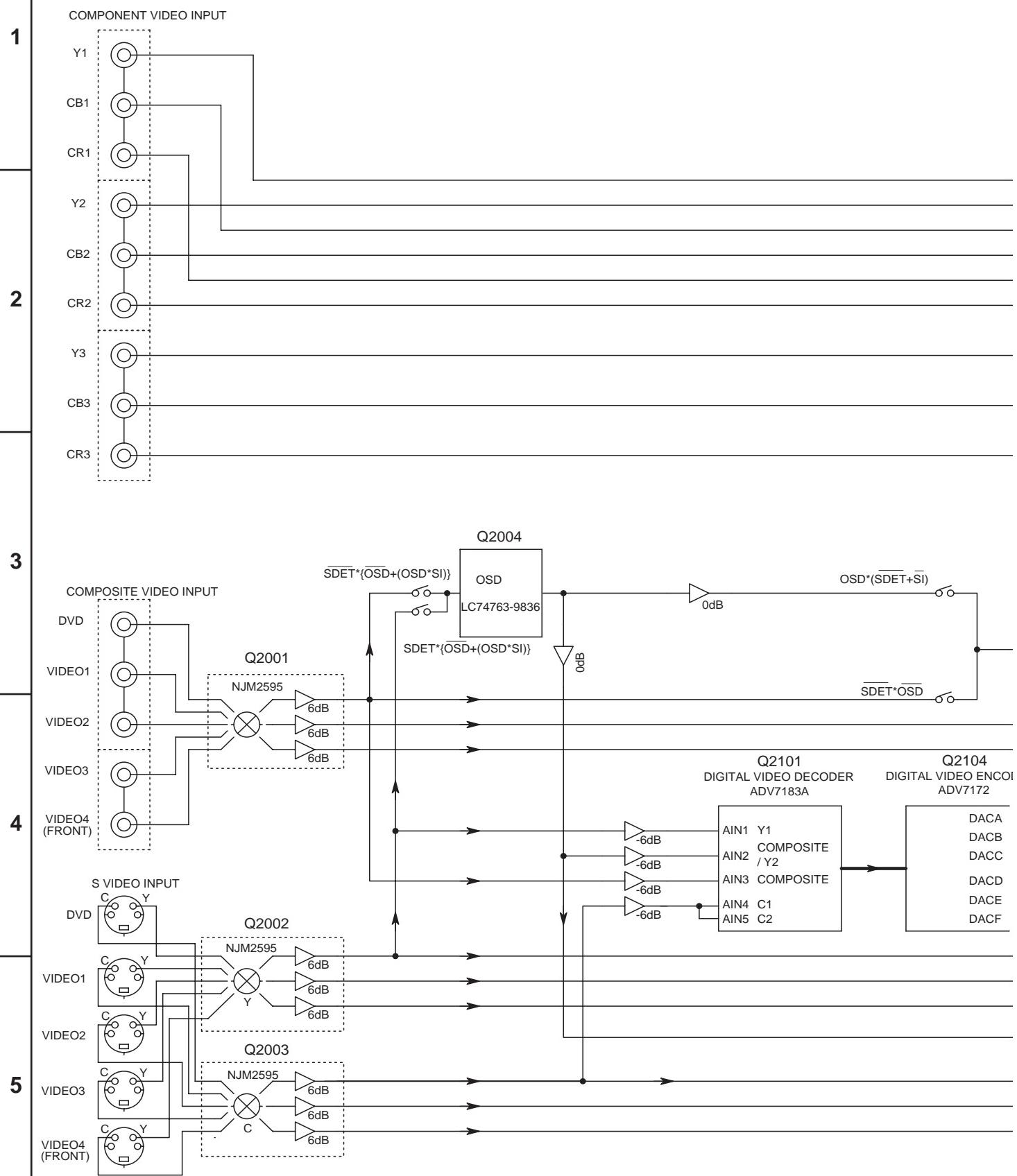
5

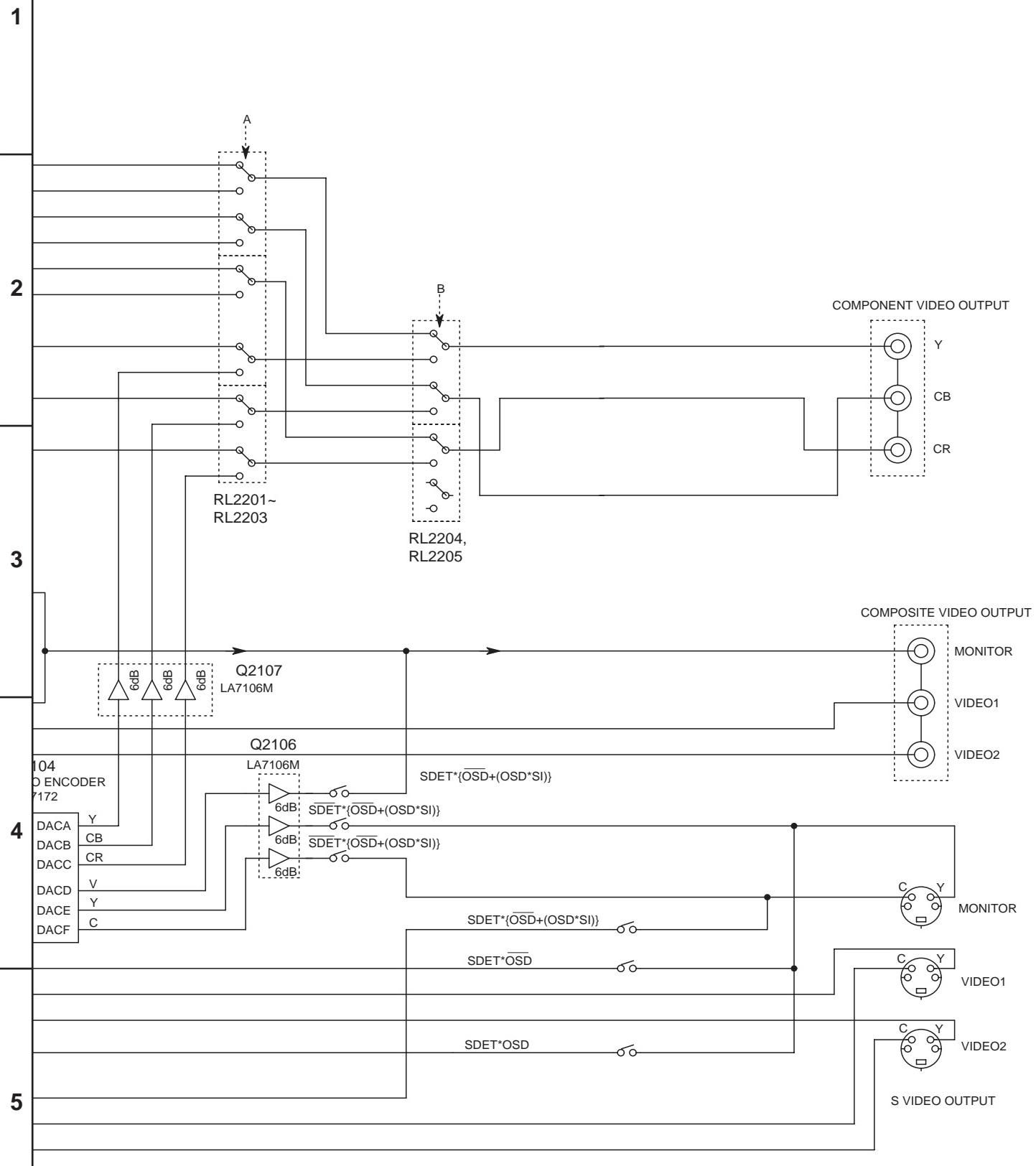


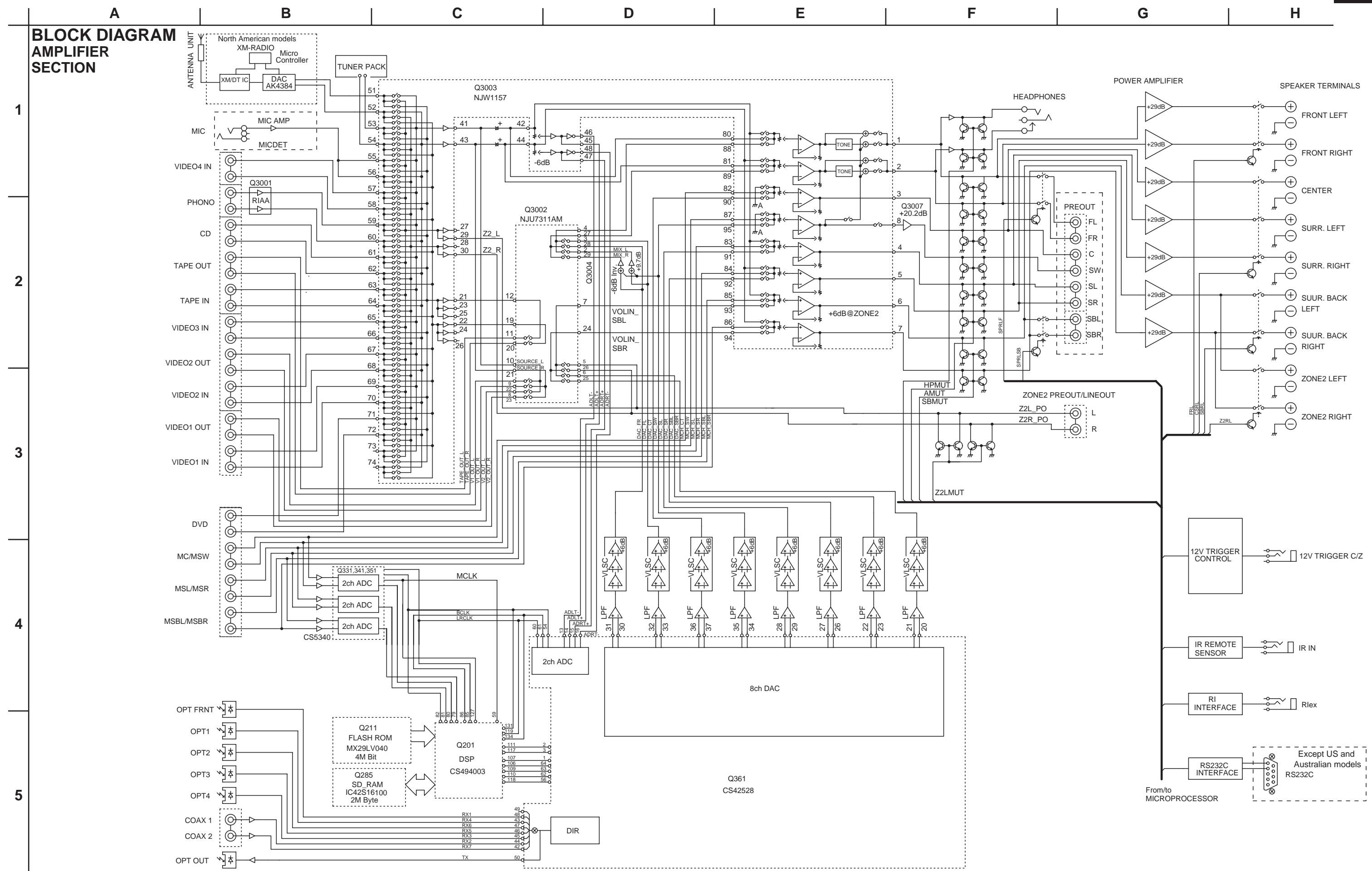
A**B****C****D**

BLOCK DIAGRAM AMPLIFIER SECTION



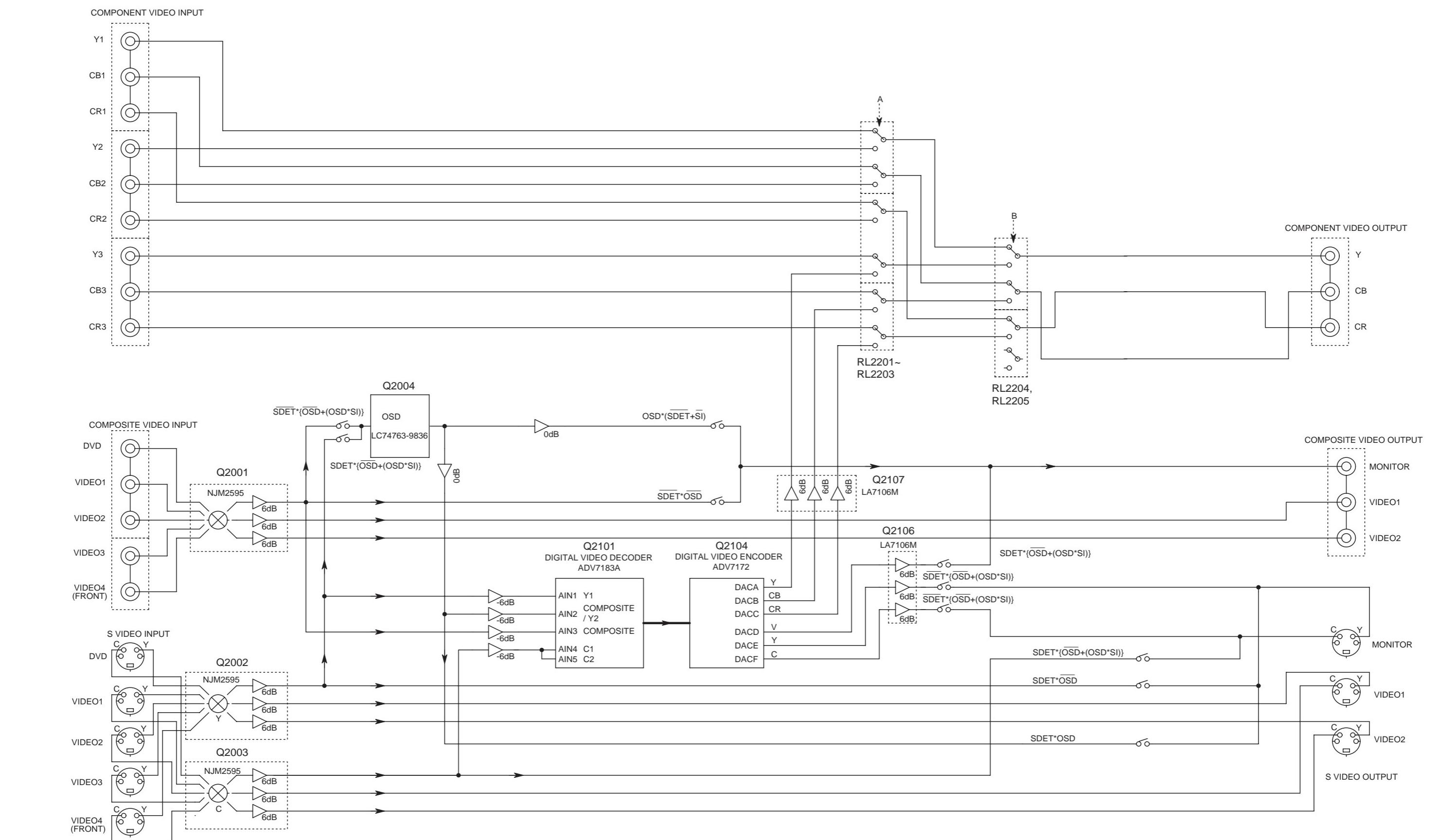
A**B****C****D****BLOCK DIAGRAM VIDEO SECTION**

A**B****C****D****BLOCK DIAGRAM VIDEO SECTION**



A | B | C | D | E | F | G | H

BLOCK DIAGRAM VIDEO SECTION

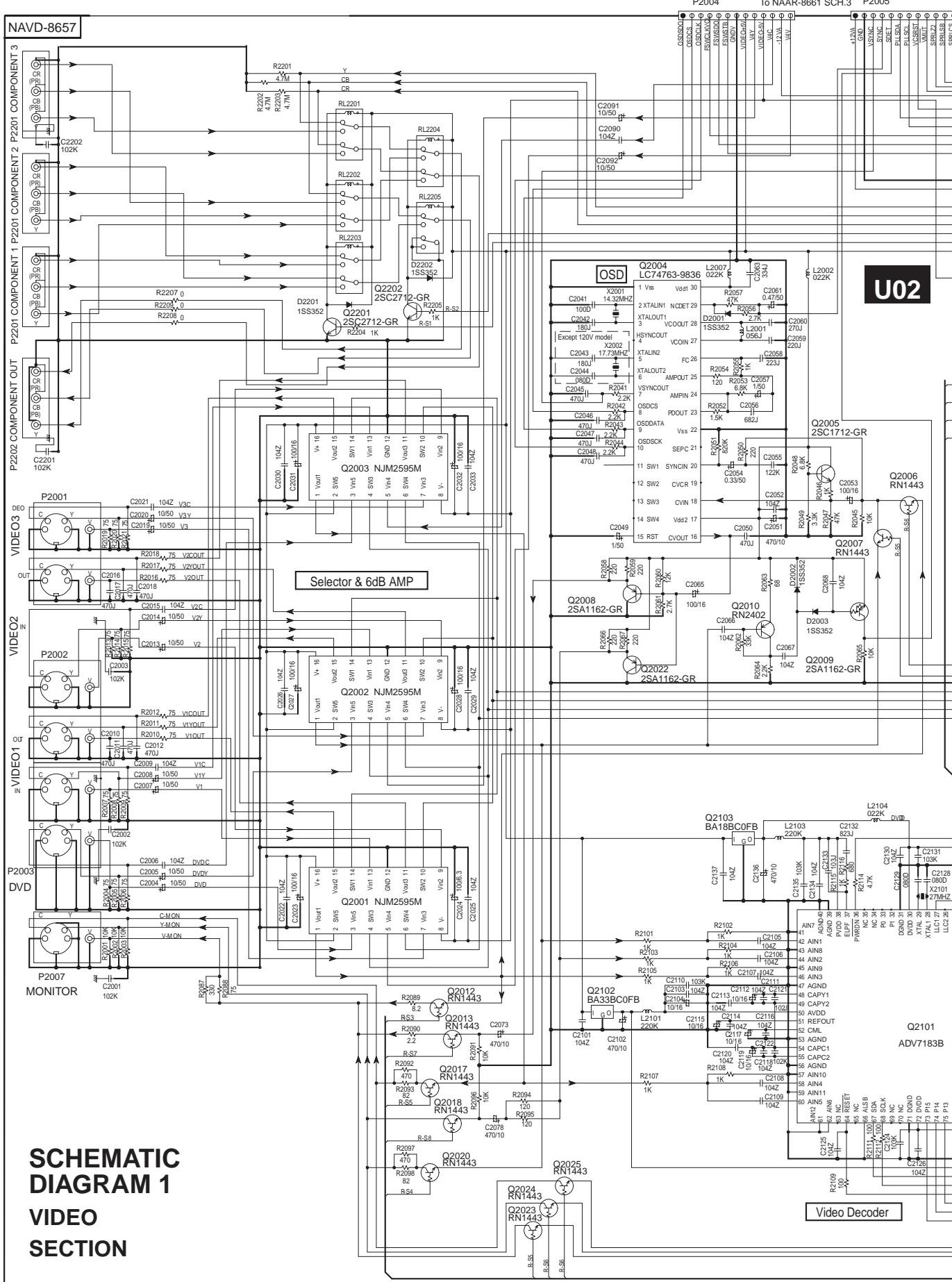


A

B

C

D

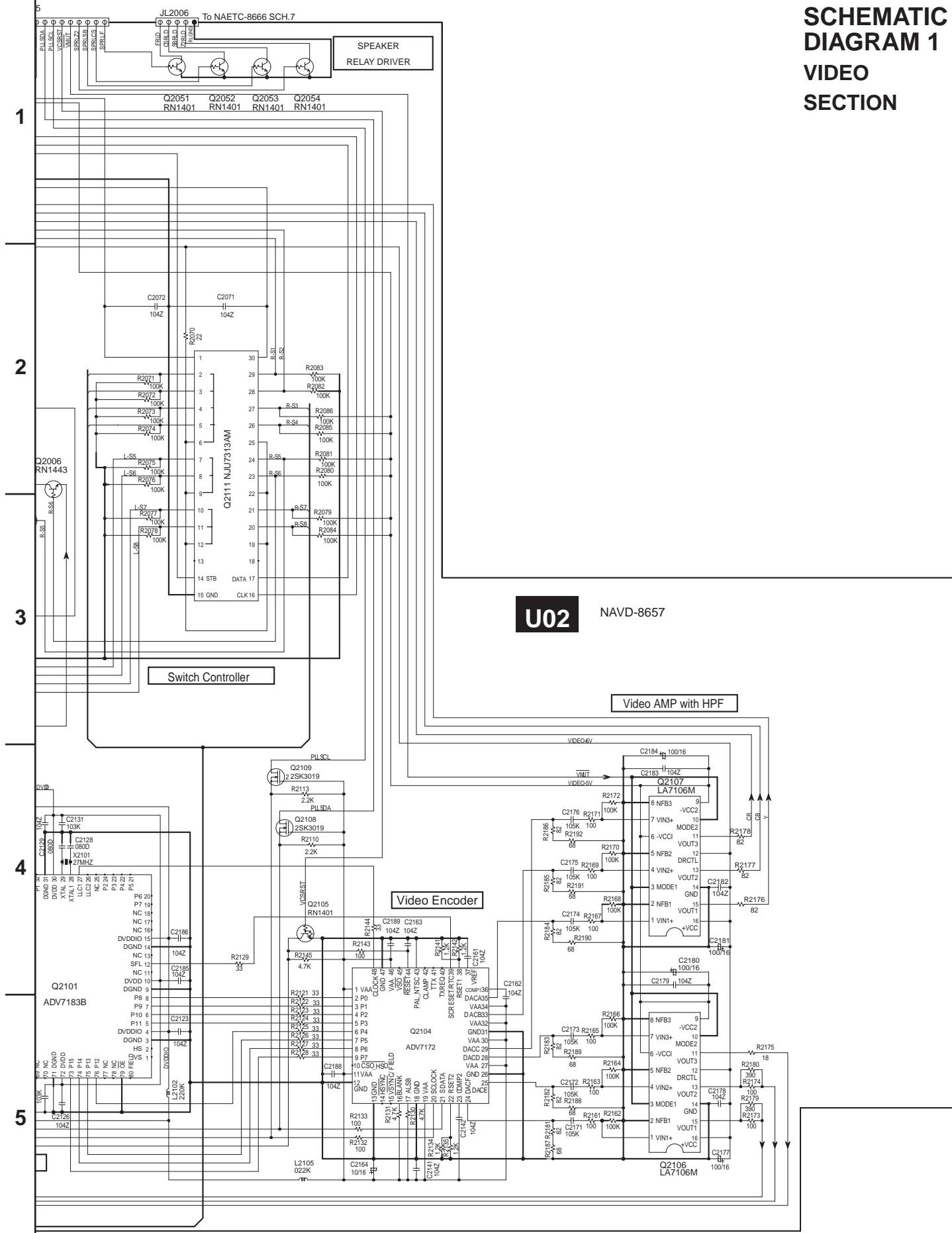


SCHEMATIC DIAGRAM 1

VIDEO SECTION

A**B****C****D**

SCHEMATIC DIAGRAM 1 VIDEO SECTION



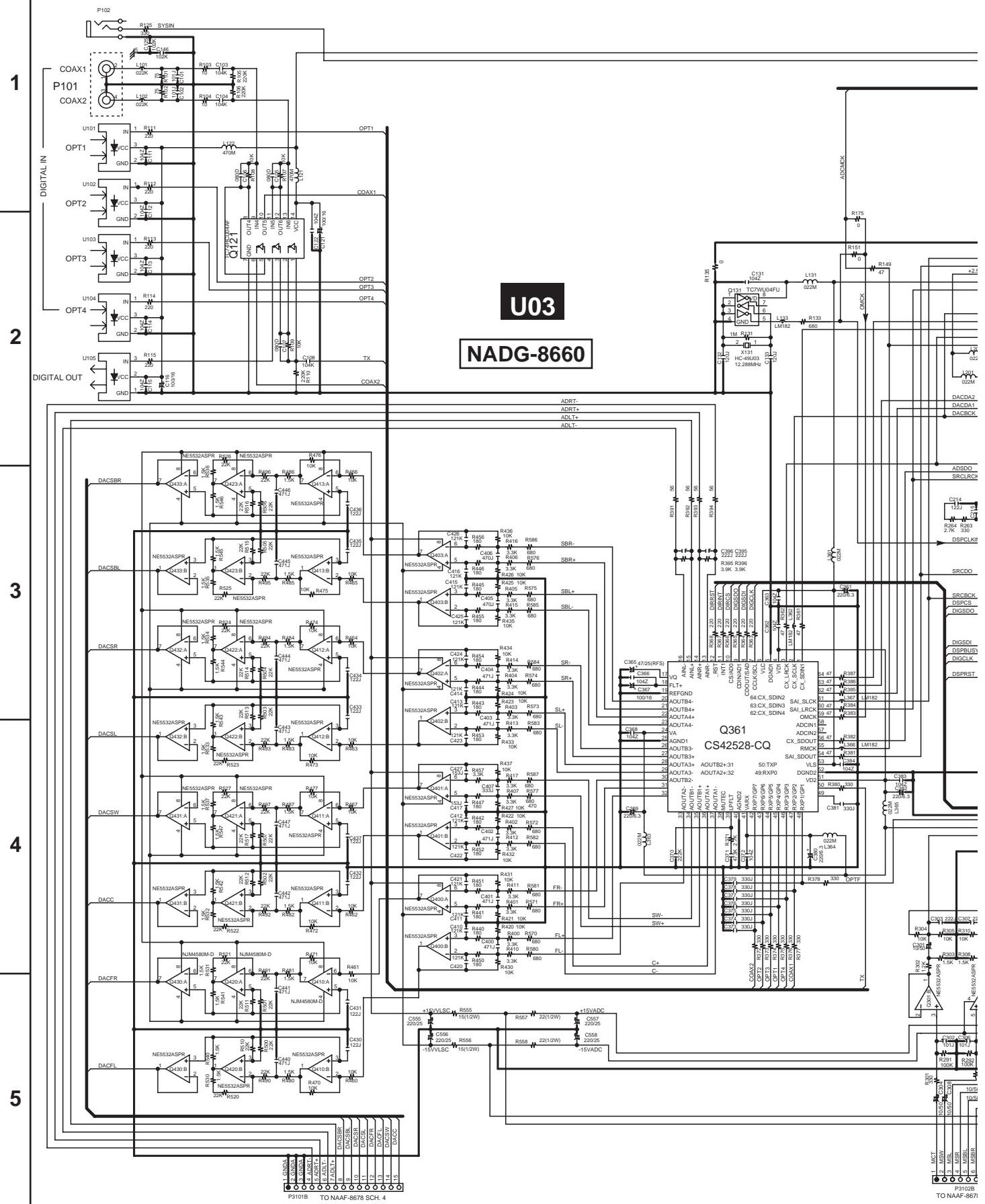
A

B

C

D

SCHEMATIC DIAGRAM 2 DSP SECTION



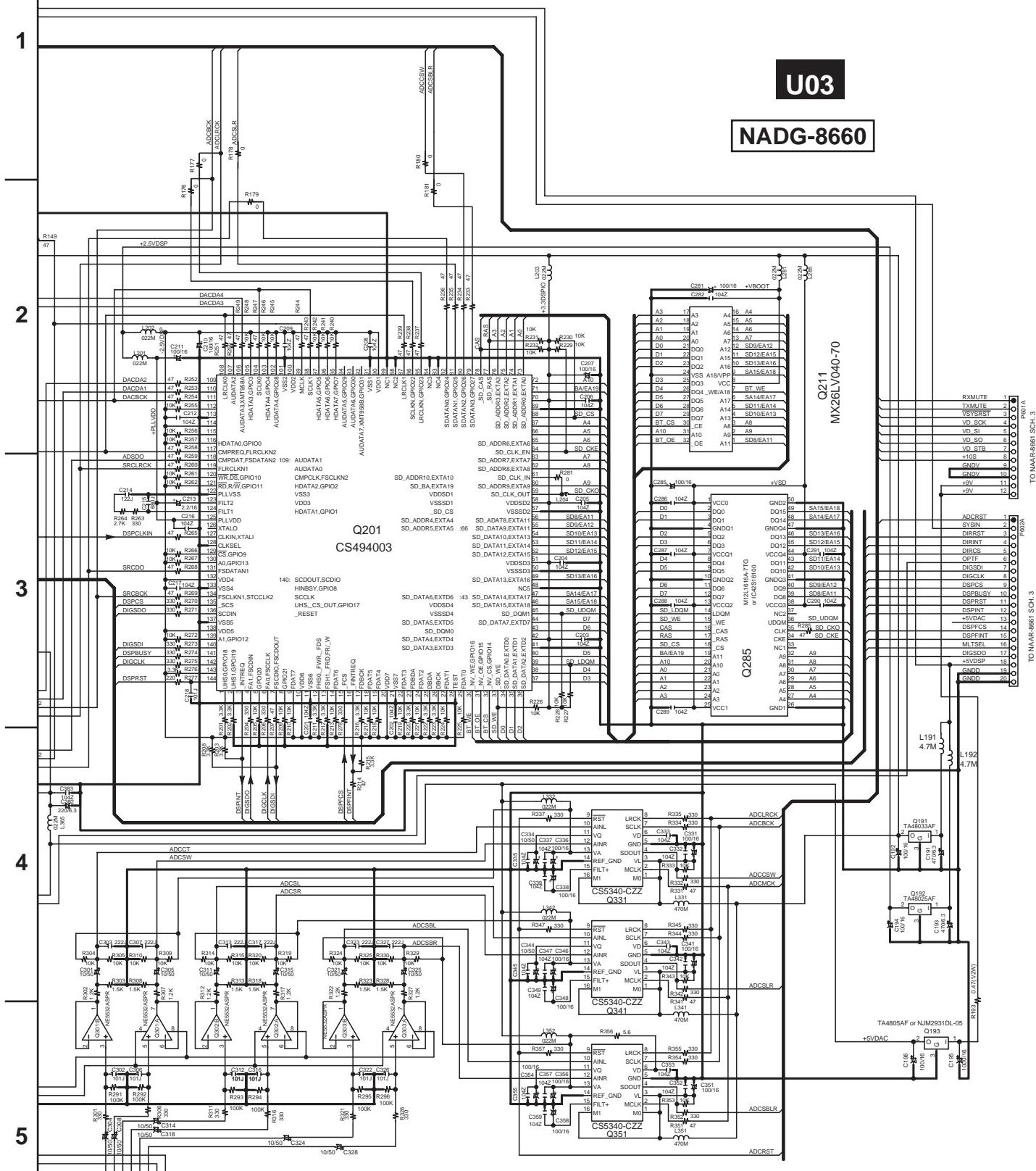
A

B

C

D

SCHEMATIC DIAGRAM 2 DSP SECTION



A pinout diagram for the P3102B component. It consists of a horizontal rectangle with eight vertical lines extending upwards from its center. Each line is labeled with a number from 1 to 8, corresponding to a pin. Pin 1 is at the left end, and pin 8 is at the right end.

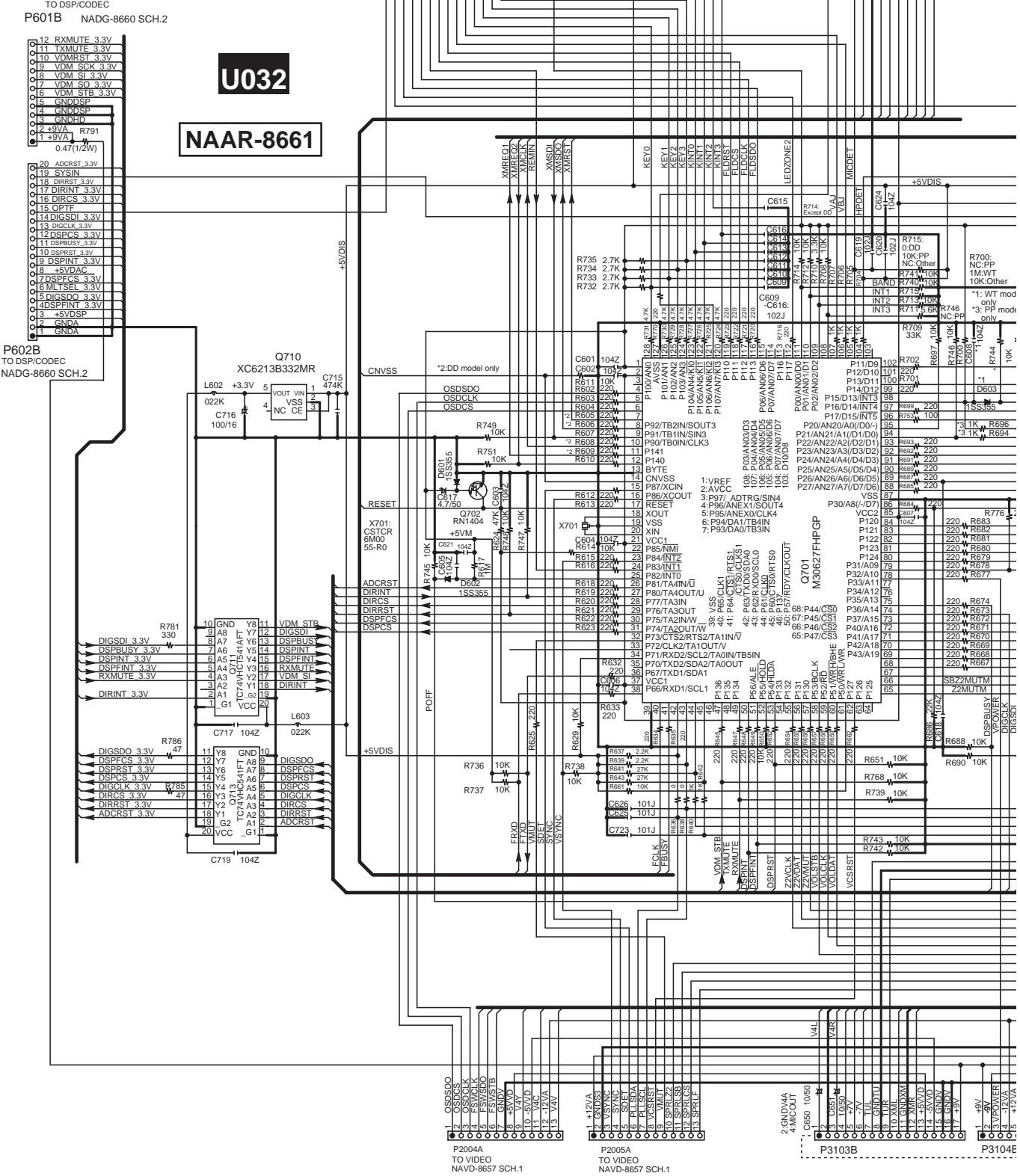
A

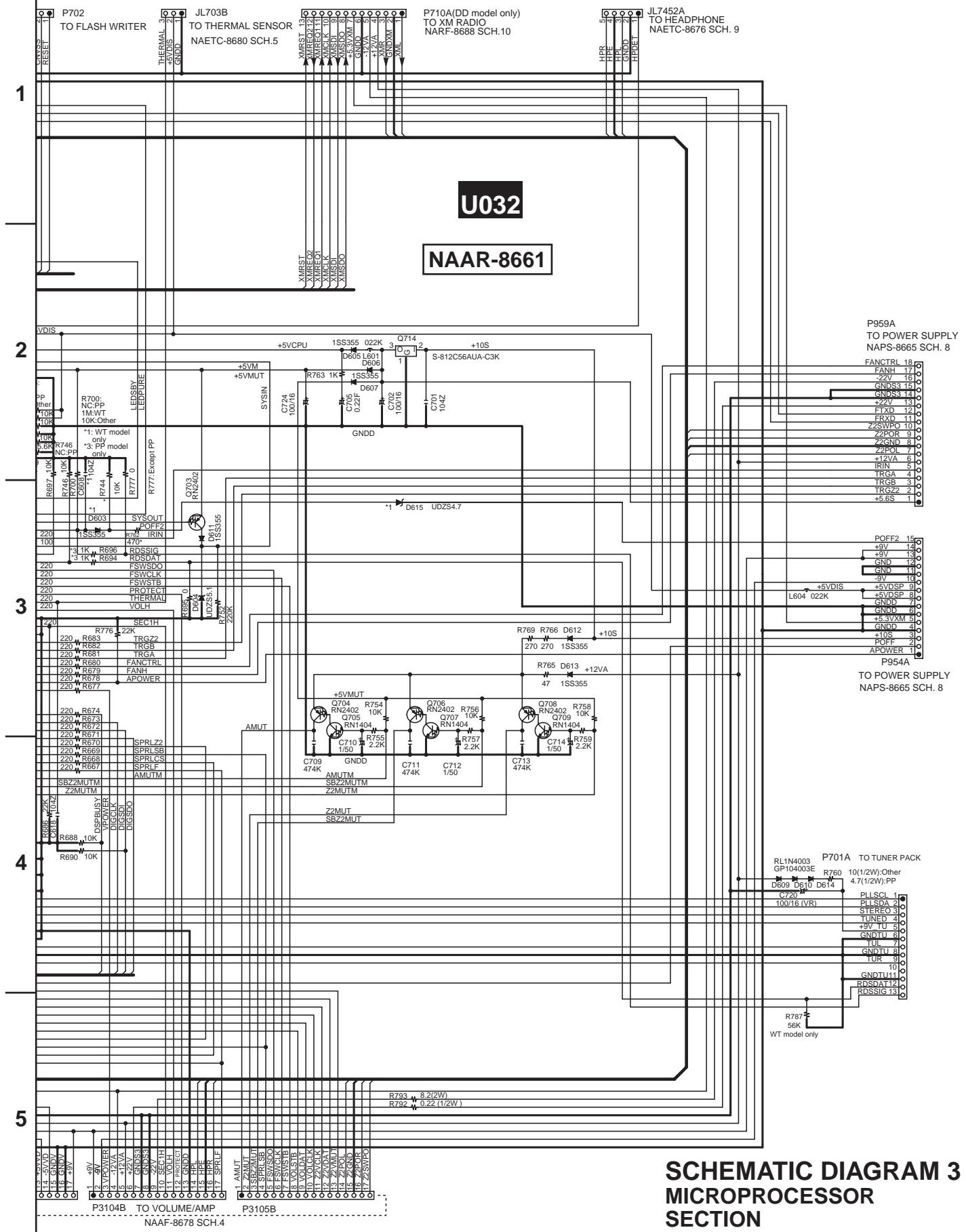
B

C

D

SCHEMATIC DIAGRAM 3 MICROPROCESSOR SECTION



A**B****C****D**

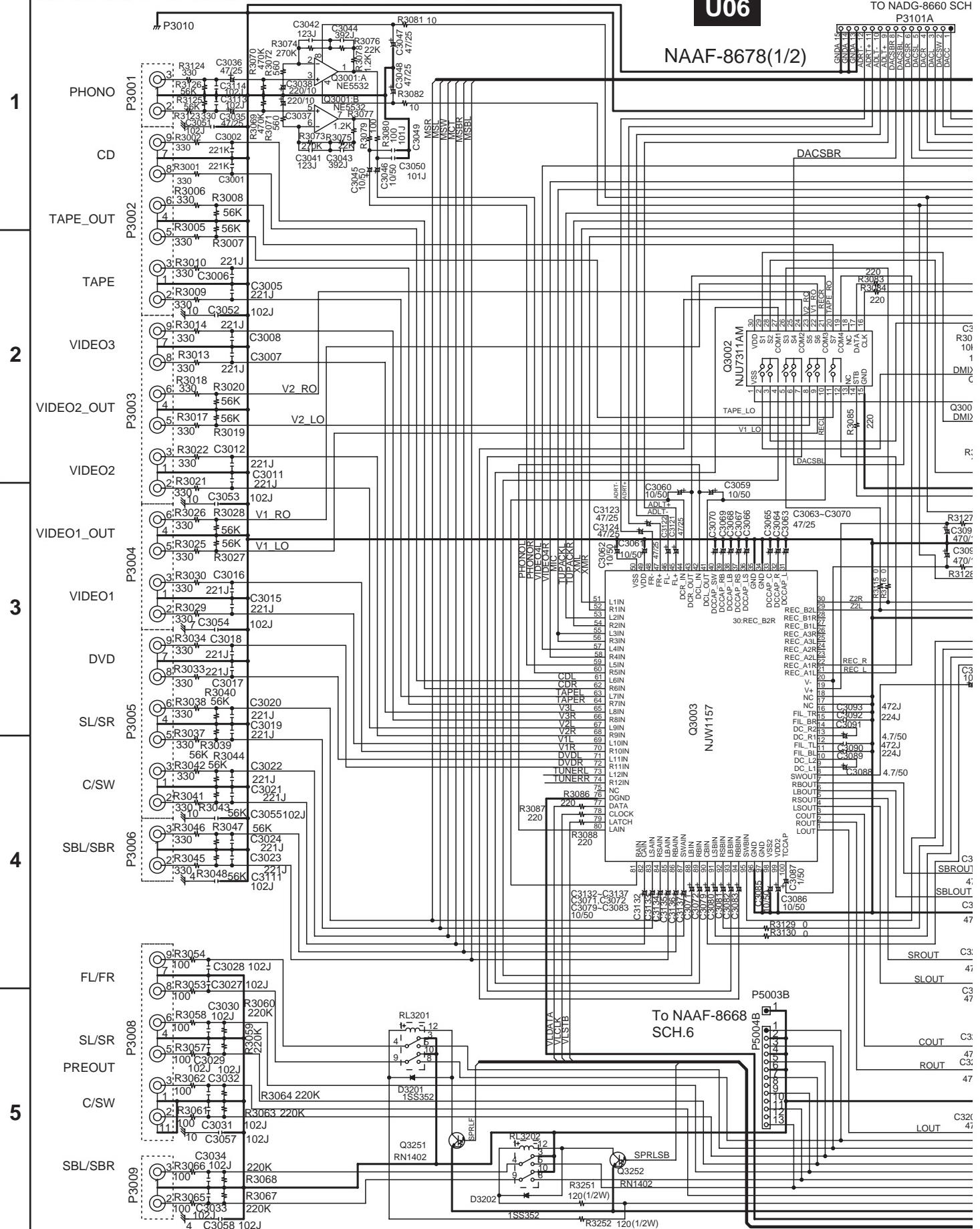
A

B

C

D

SCHEMATIC DIAGRAM 4 PREAMPLIFIER SECTION



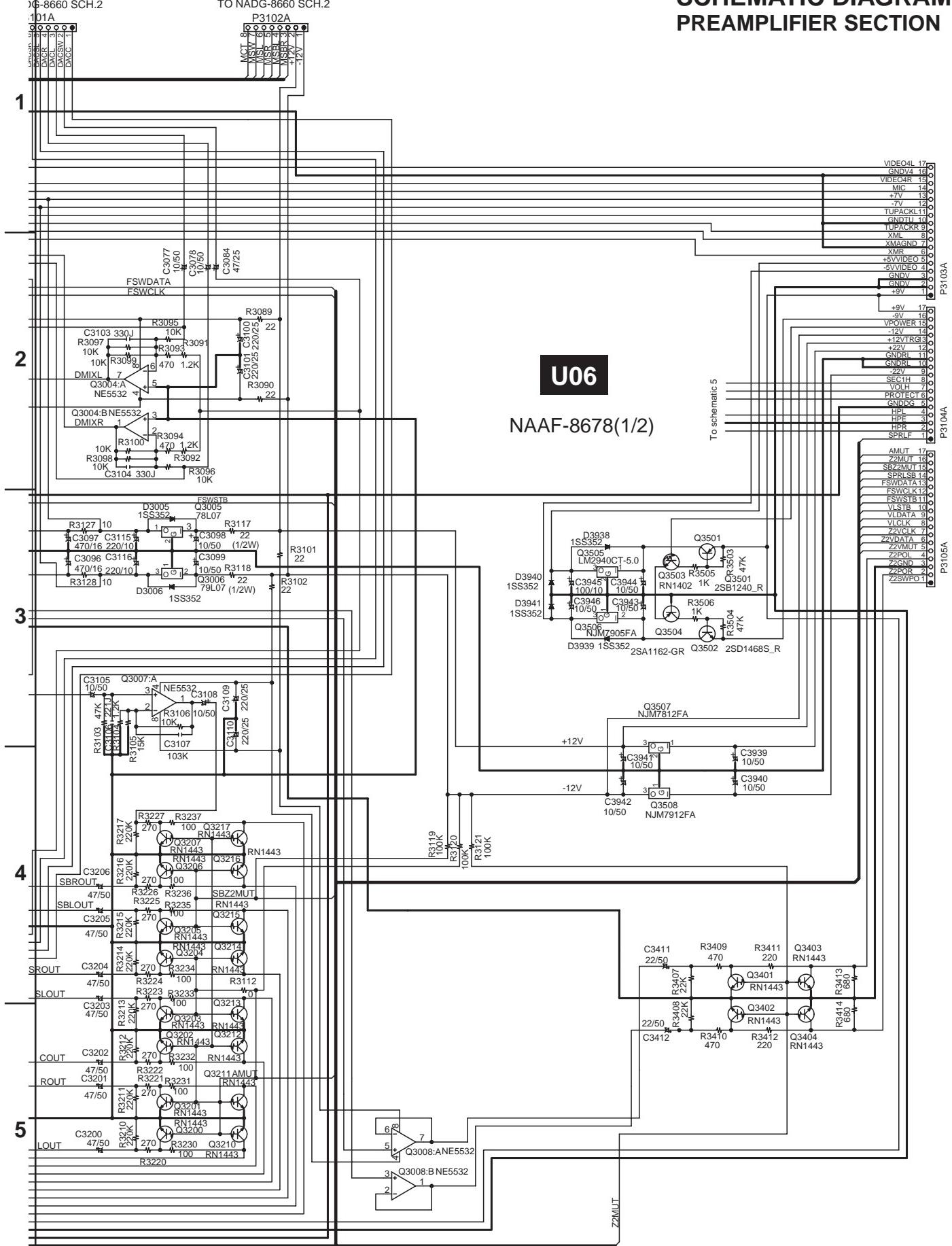
A

B

C

D

SCHEMATIC DIAGRAM 4 PREAMPLIFIER SECTION



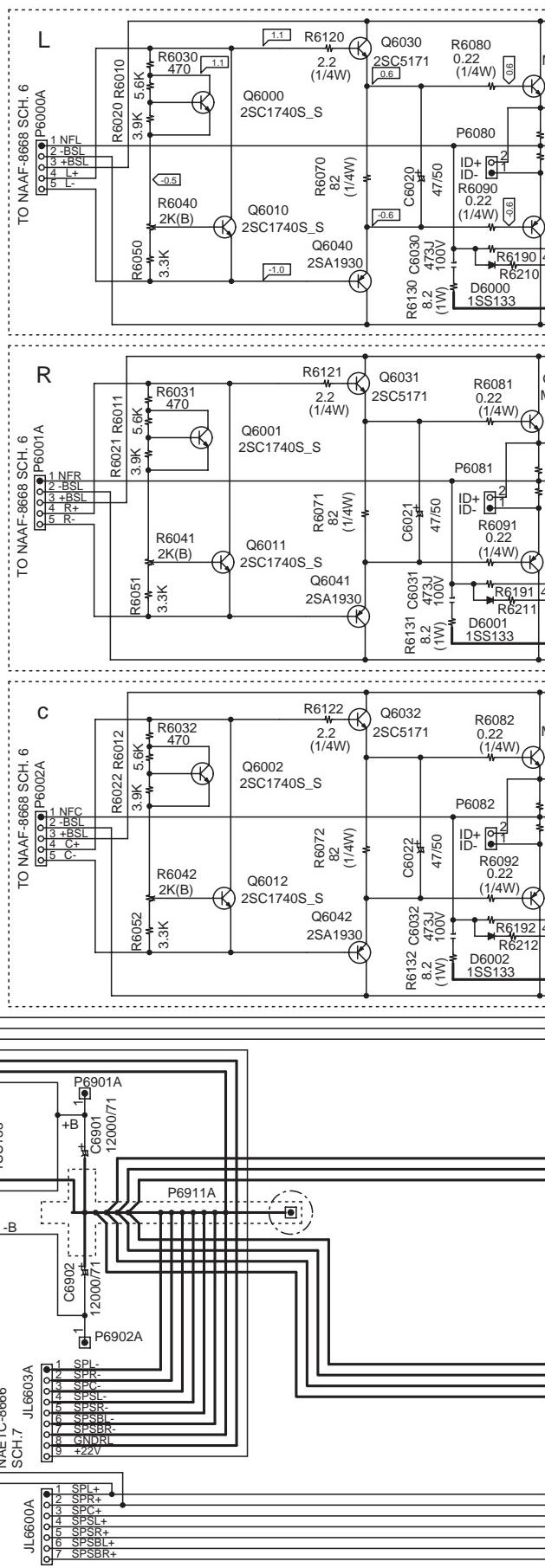
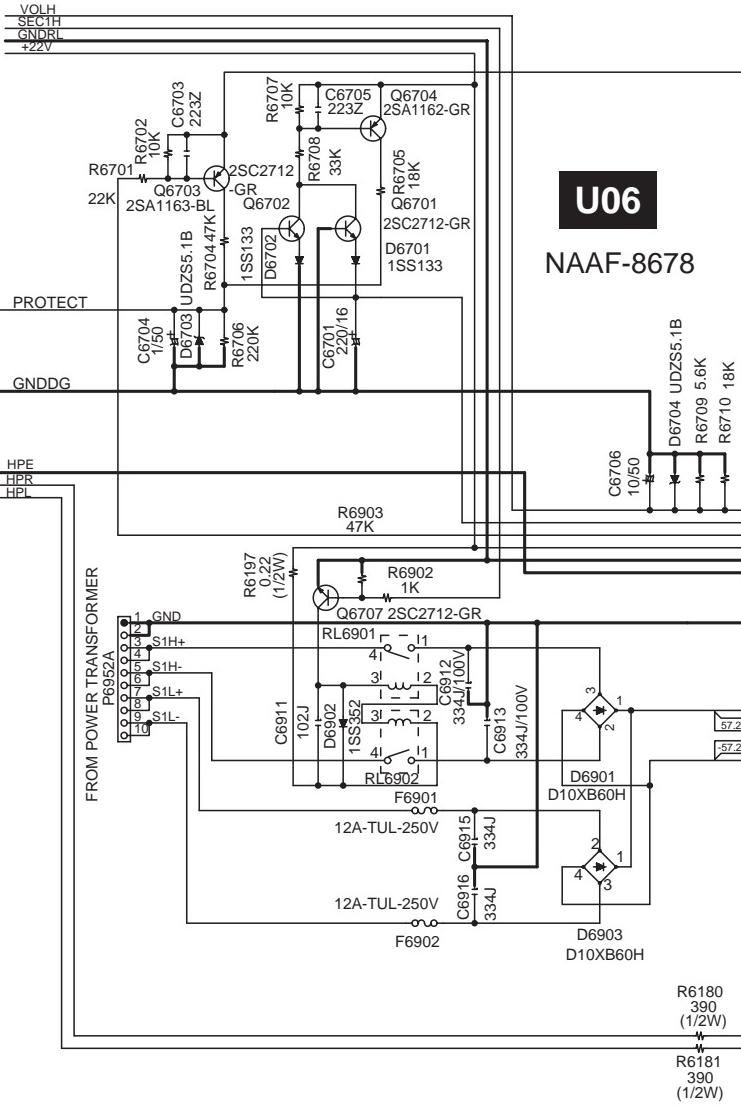
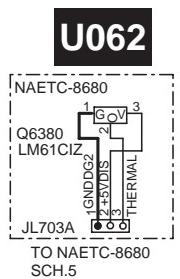
A

B

C

D

SCHEMATIC DIAGRAM 5 POWER AMPLIFIER SECTION

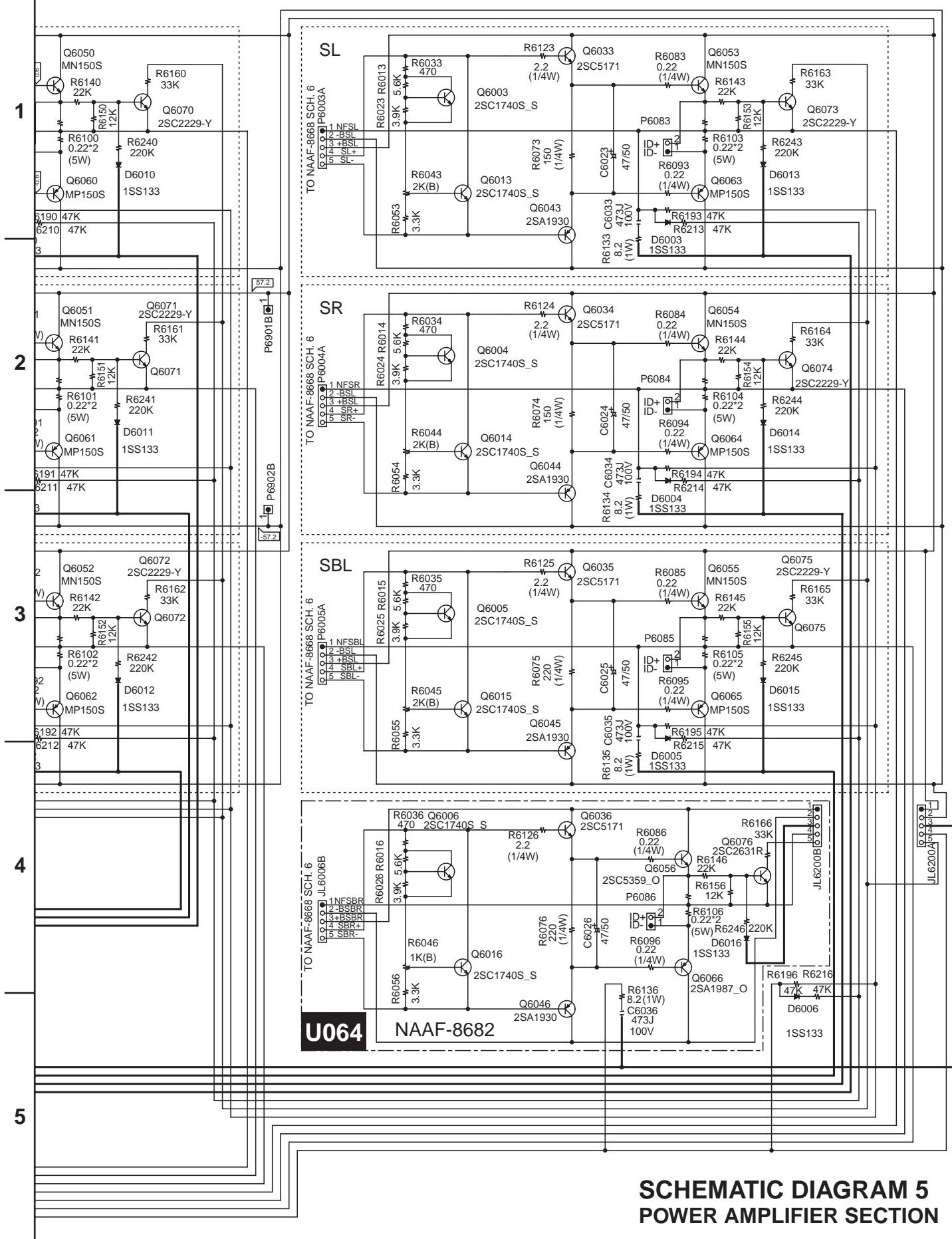


A

B

C

D



SCHEMATIC DIAGRAM 5 POWER AMPLIFIER SECTION

A

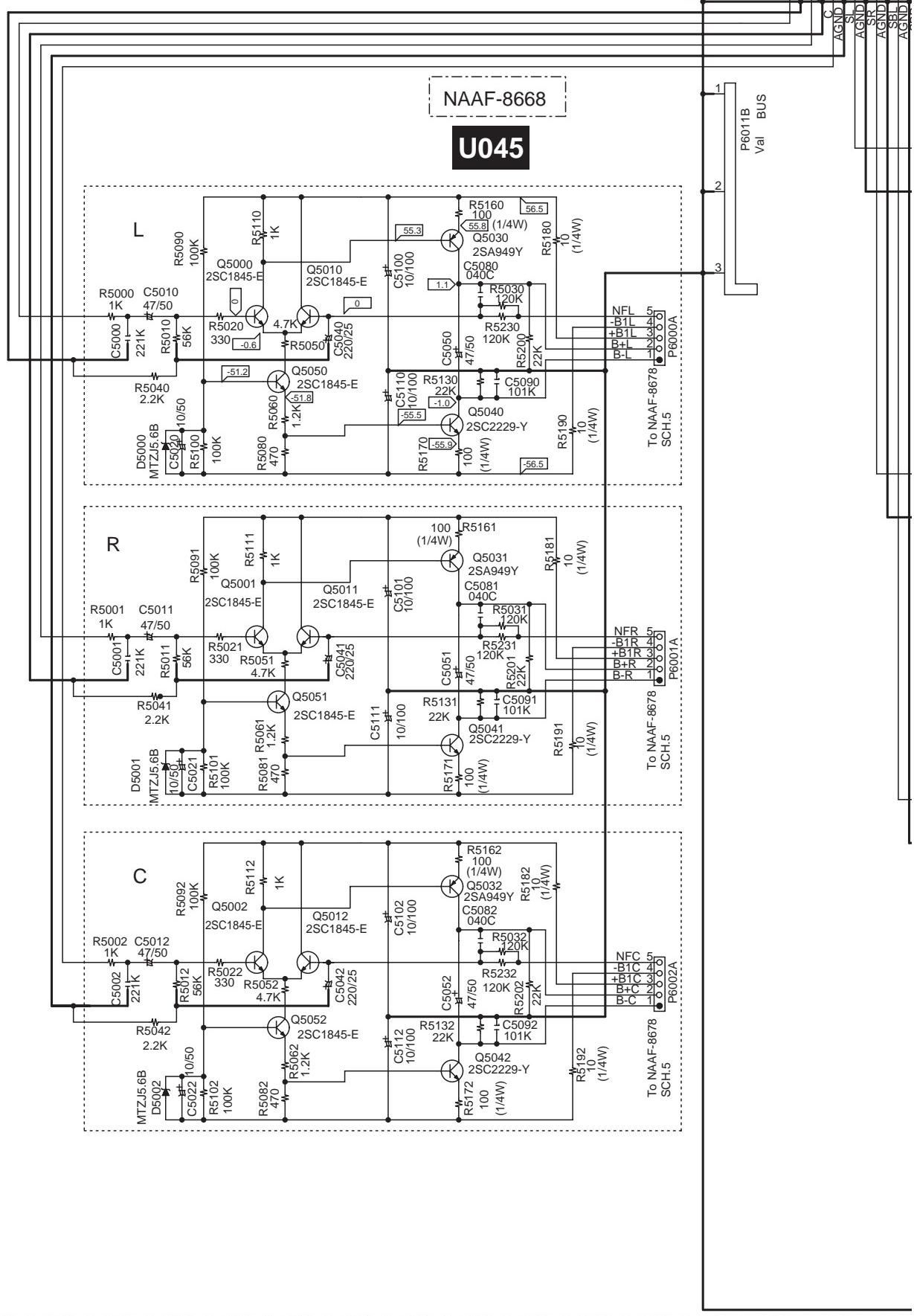
B

C

D

SCHEMATIC DIAGRAM 6 DRIVER SECTION

1



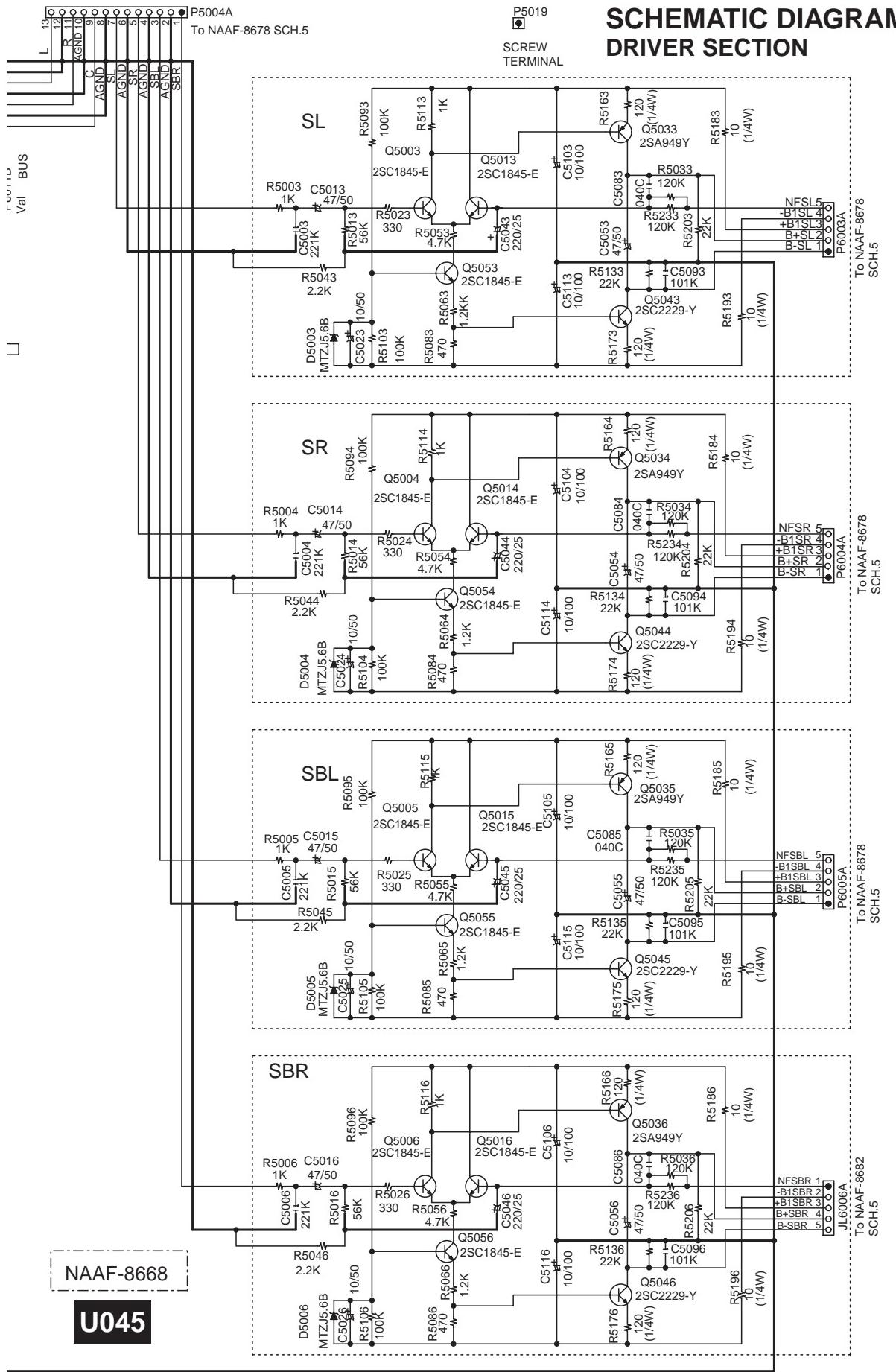
A

B

C

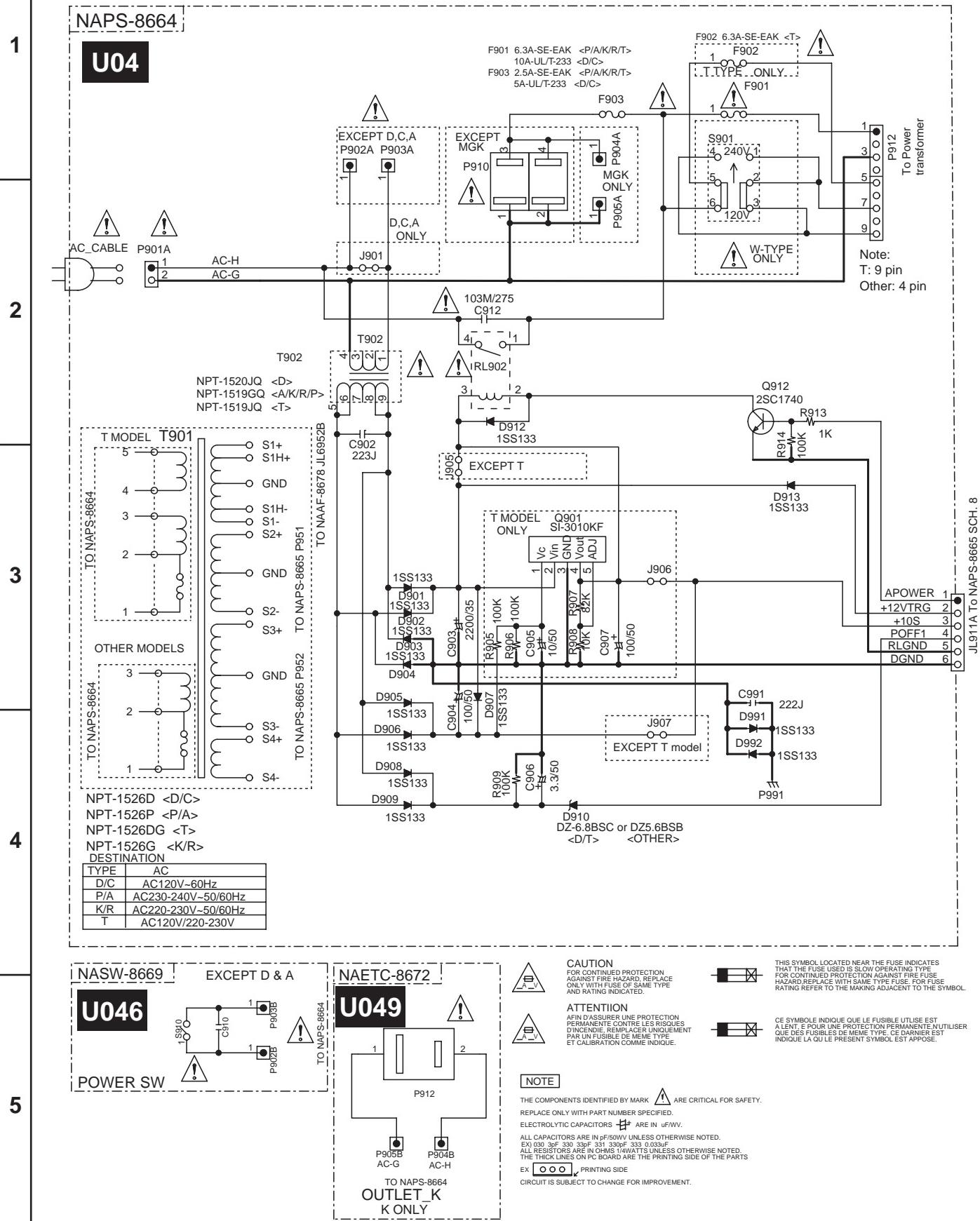
D

SCHEMATIC DIAGRAM 6 DRIVER SECTION



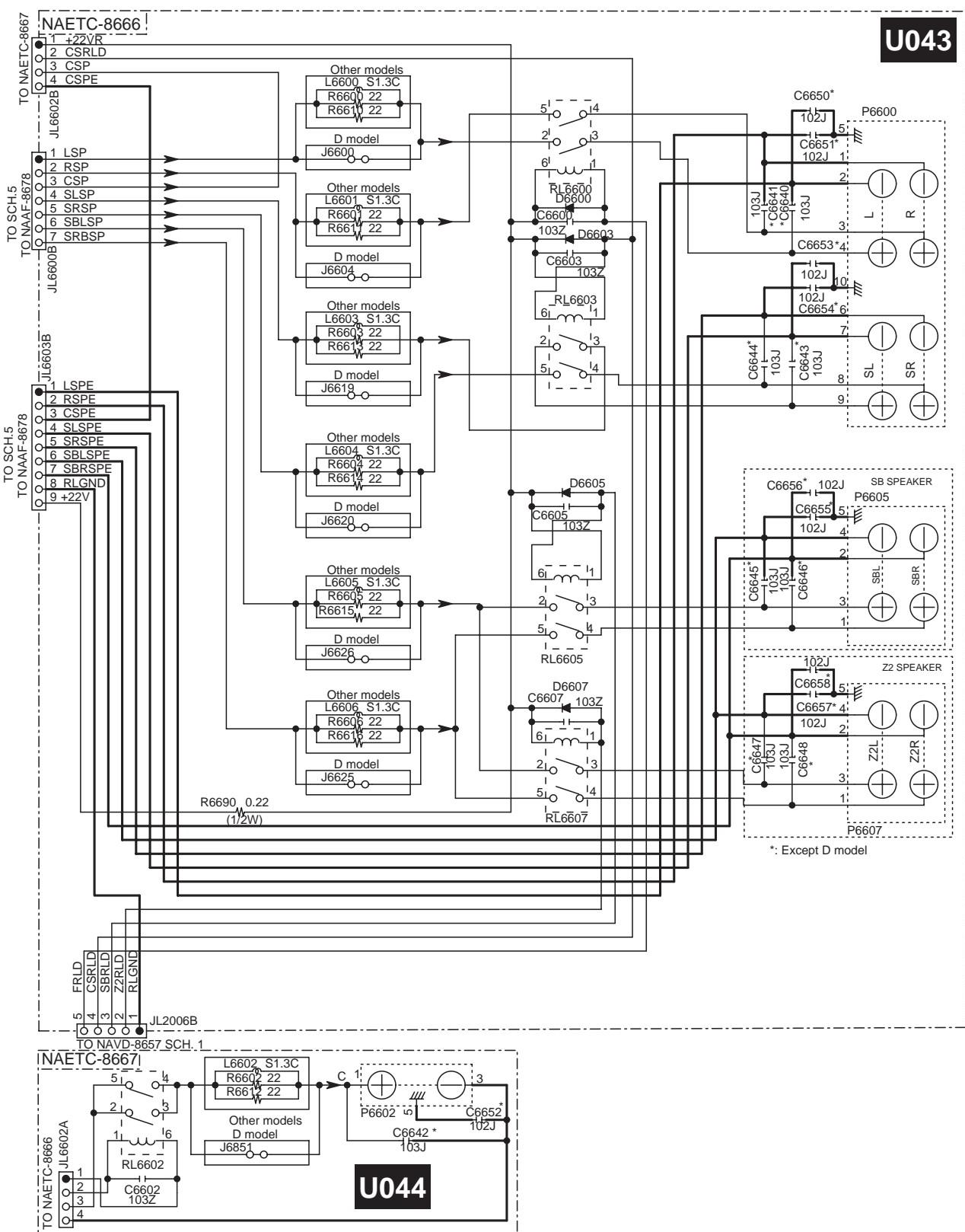
SCHEMATIC DIAGRAM 7

POWER SUPPLY SECTION



A**B****C****D**

SCHEMATIC DIAGRAM 7 POWER SUPPLY SECTION



A

B

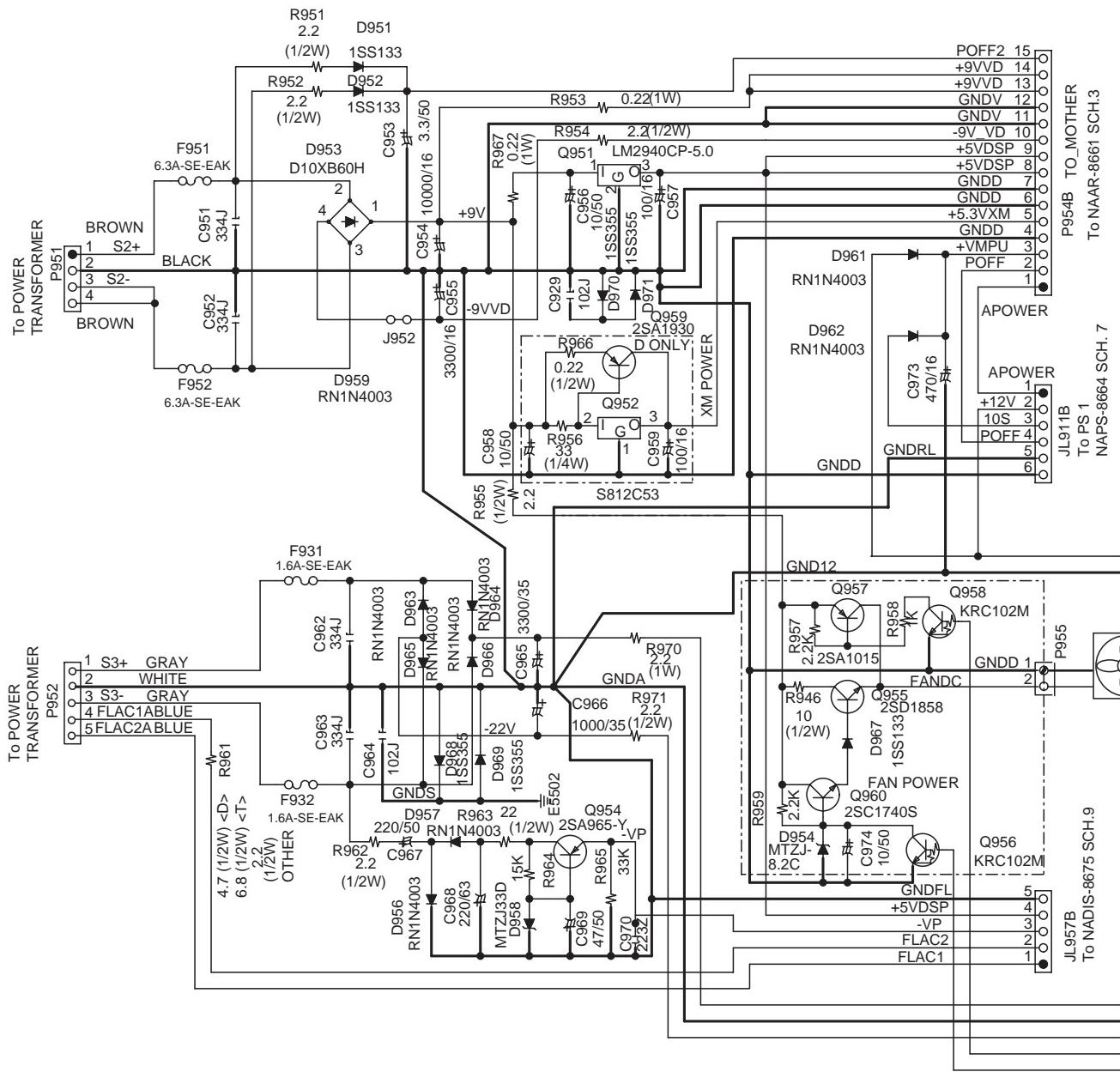
C

D

SCHEMATIC DIAGRAM 8 POWER SUPPLY SECTION

NAPS-8665

U042



A

B

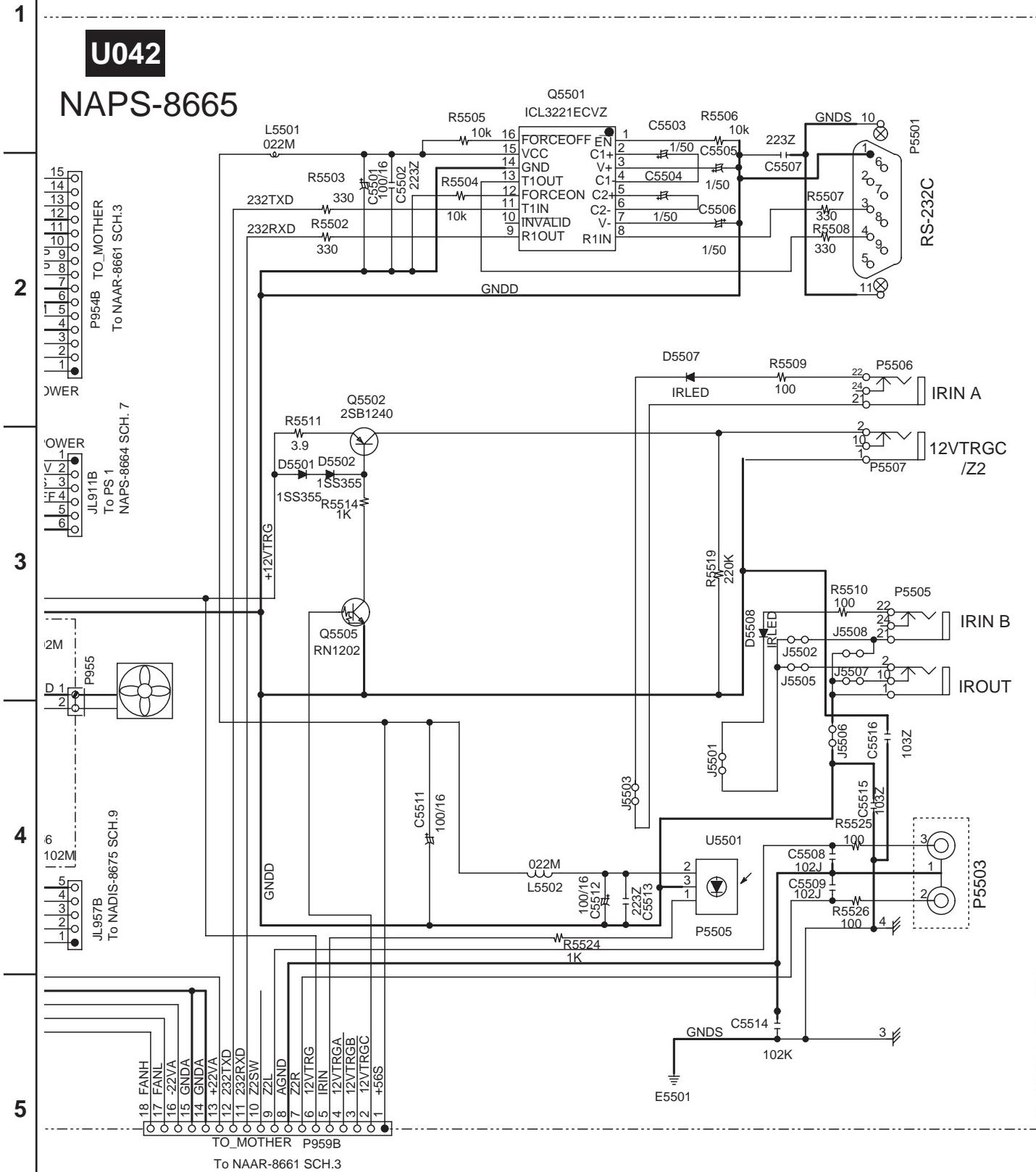
C

D

SCHEMATIC DIAGRAM 8 POWER SUPPLY SECTION

U042

NAPS-8665



A

B

C

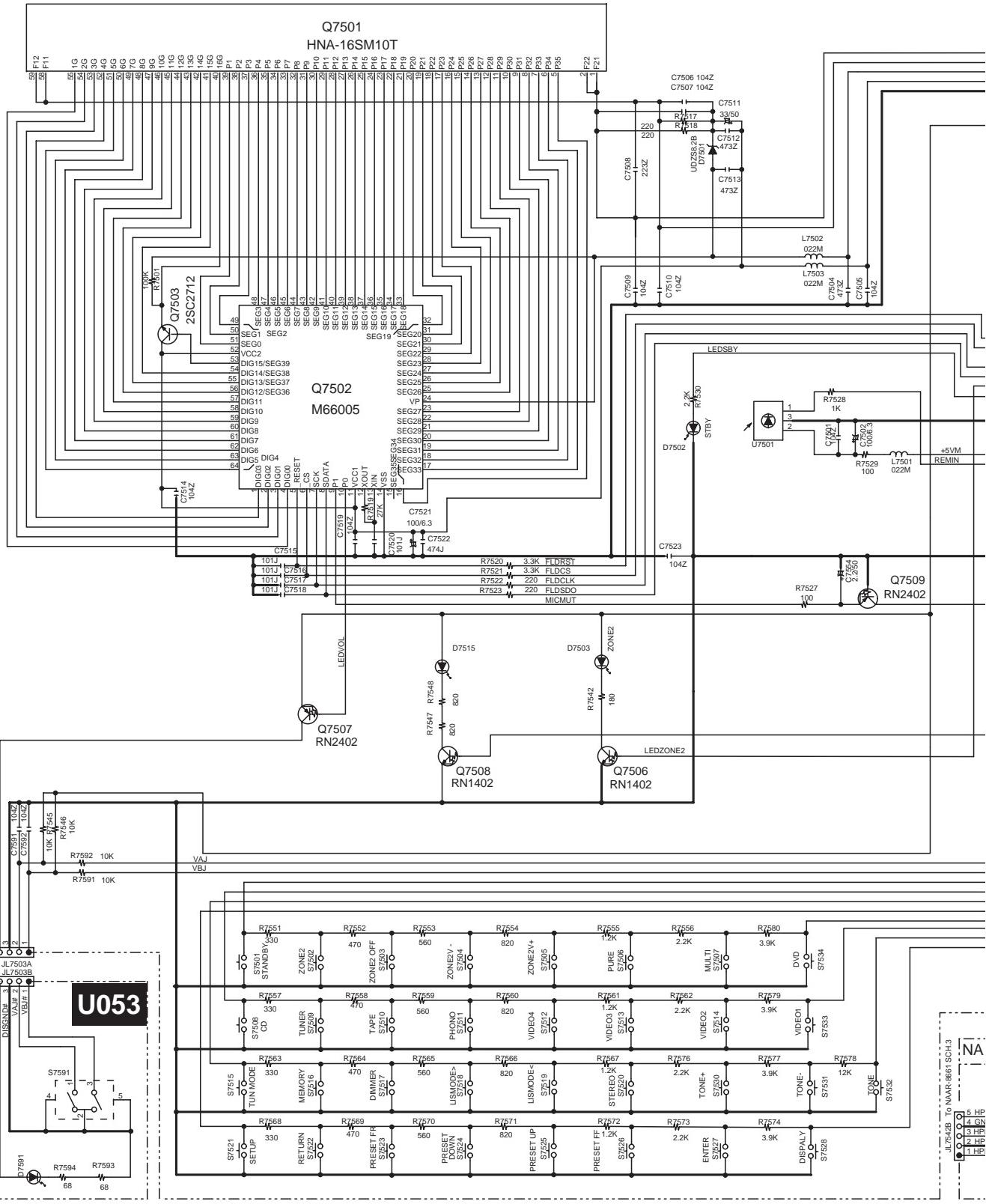
D

SCHEMATIC DIAGRAM 9 DISPLAY SECTION

1

2

U05



NAE
8677

NA
JL7542B To NAAR-8661 SCH.3

A

B

C

D

SCHEMATIC DIAGRAM 9

DISPLAY SECTION

1

U05

NADIS-8675

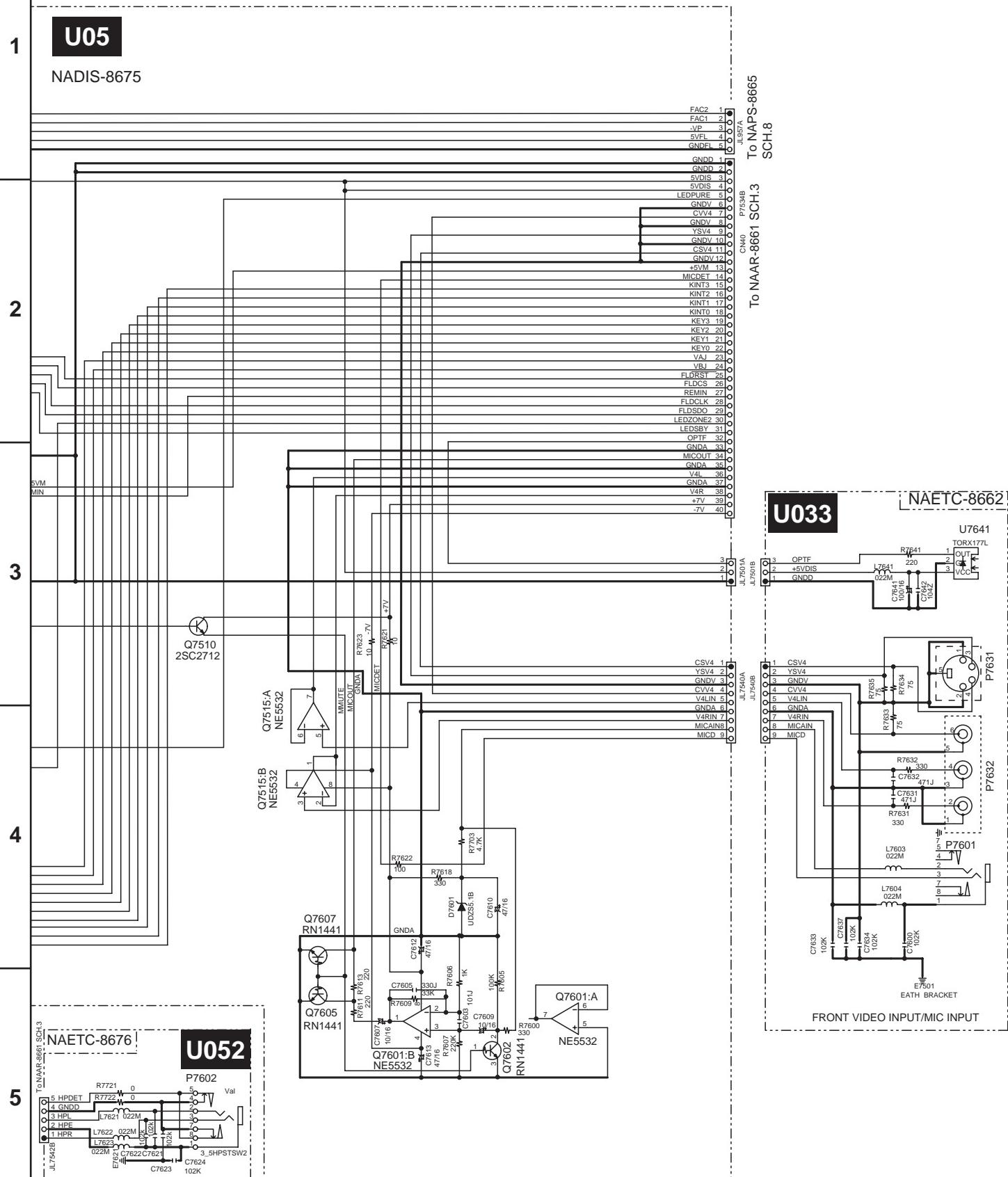
2

1

3

4

5



A

B

C

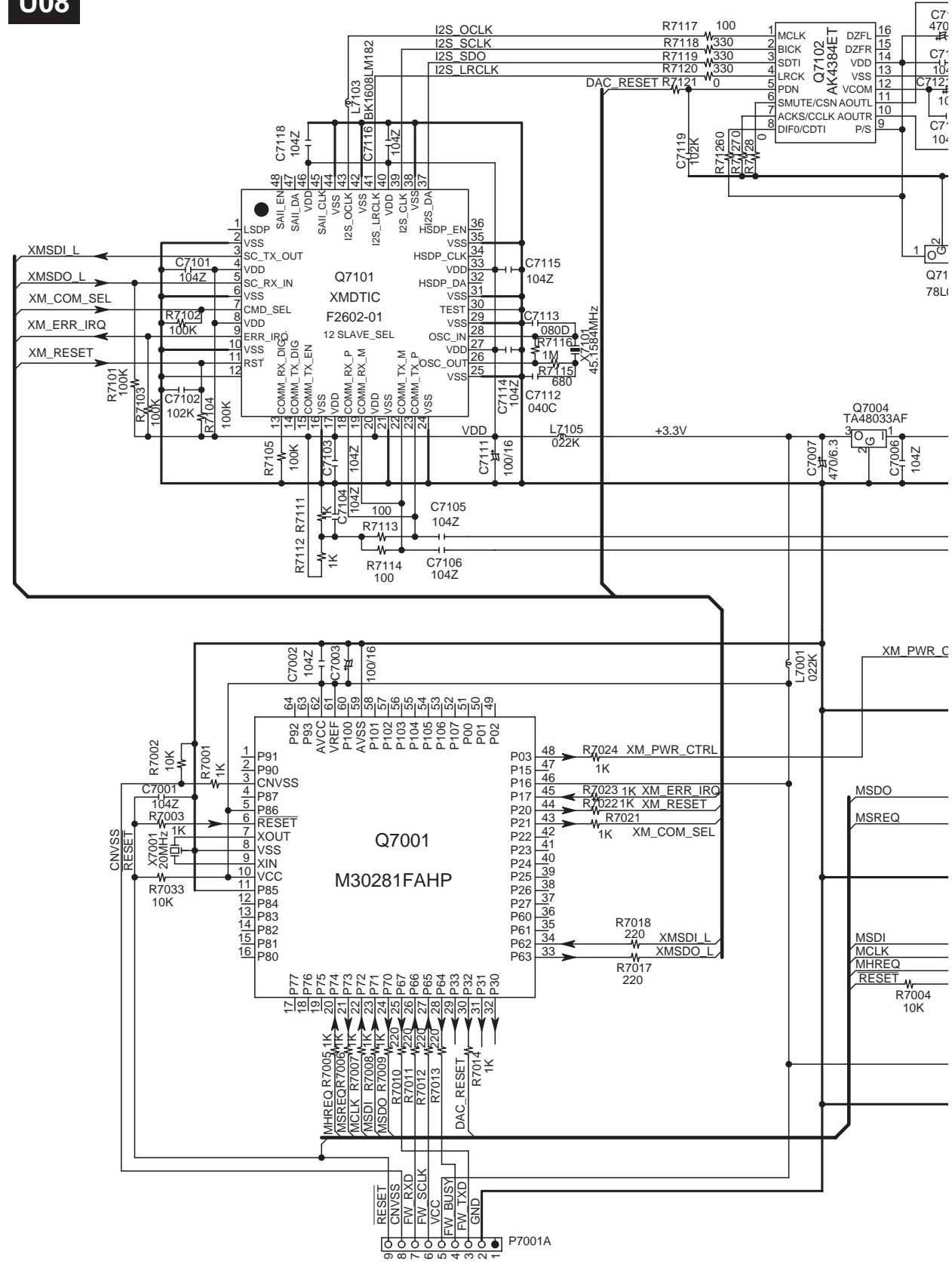
D

SCHEMATIC DIAGRAM 10

XMRADIO SECTION (North American models)

NARF-8688

U08



A

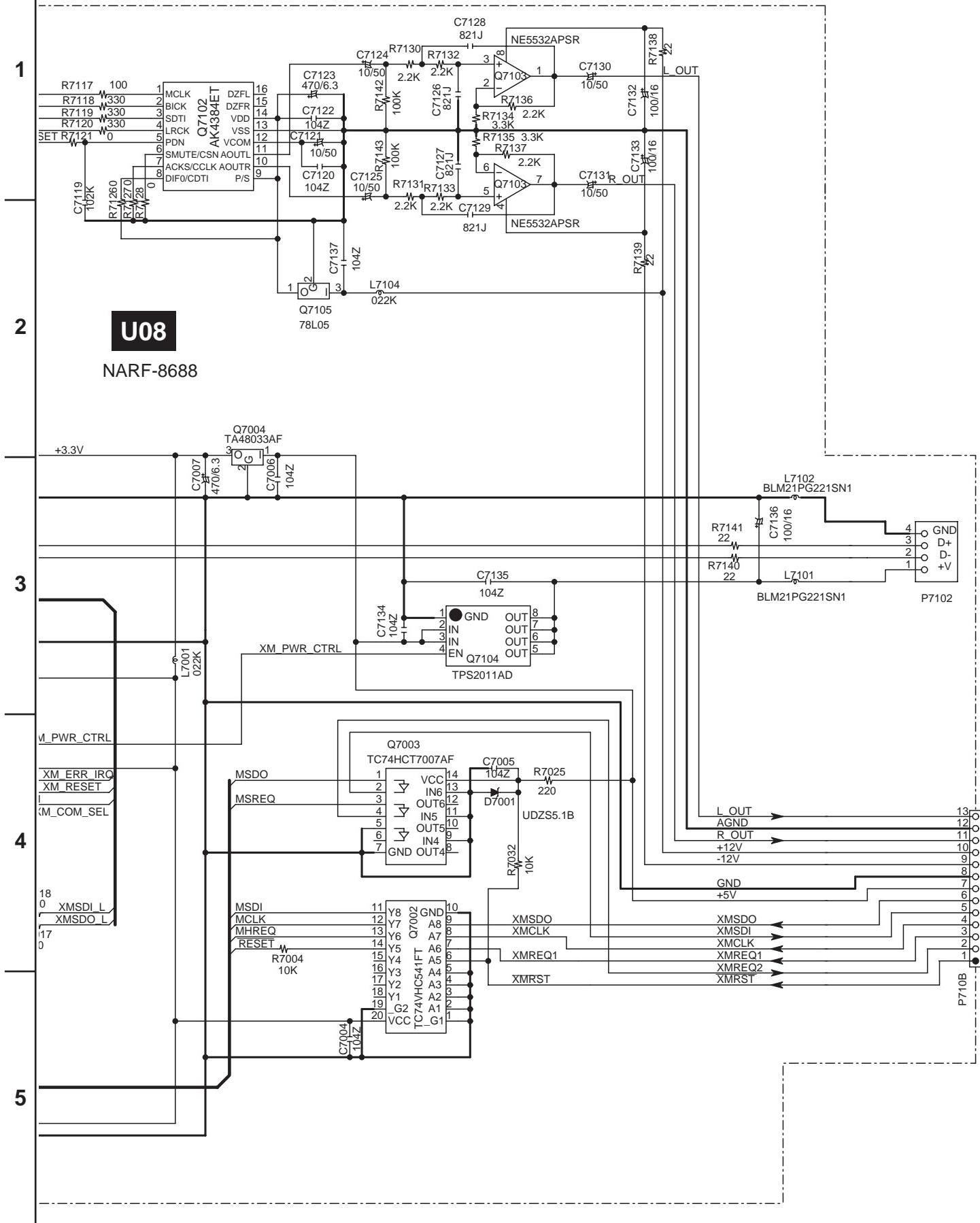
B

C

D

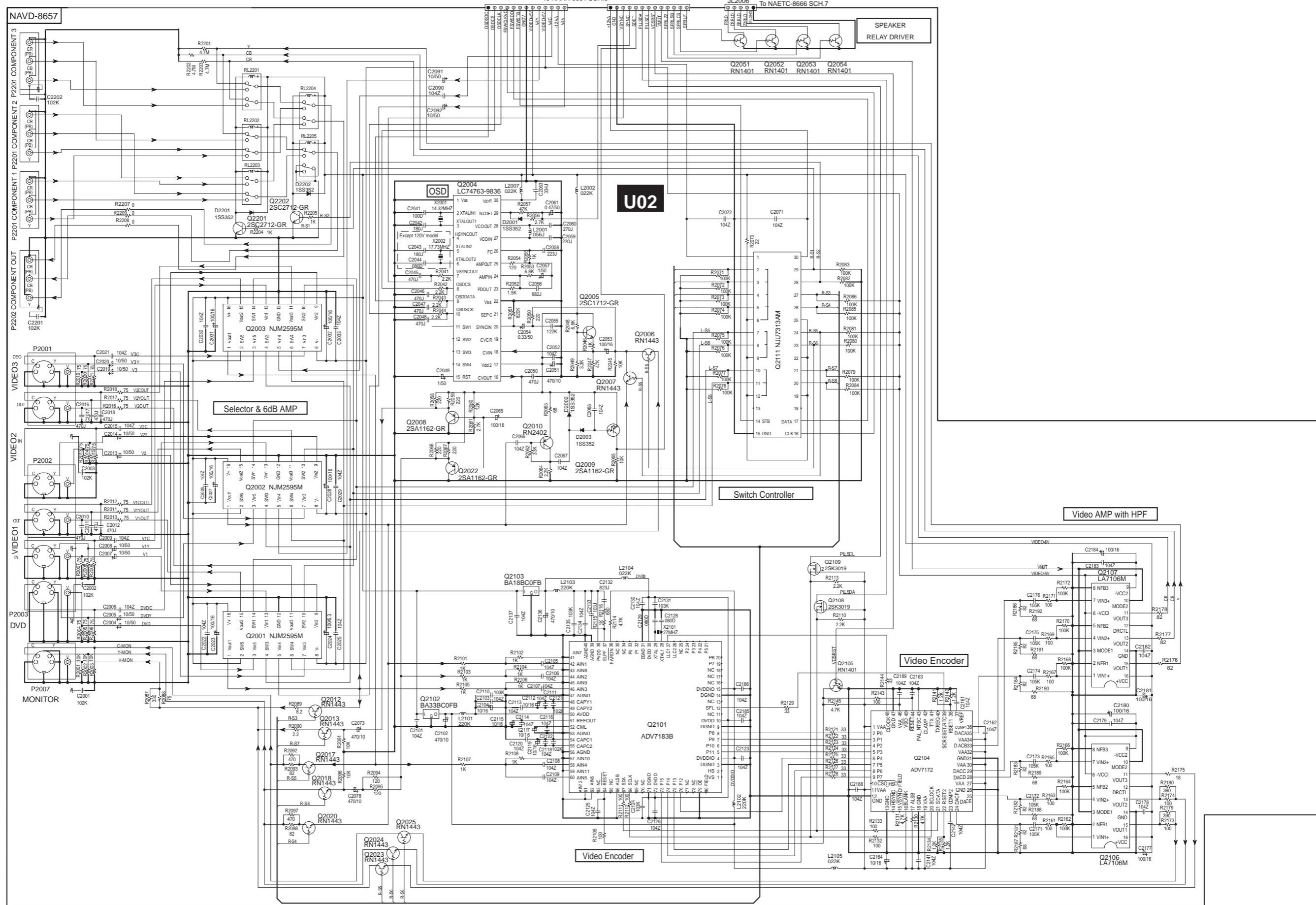
SCHEMATIC DIAGRAM 10

XMRADIO SECTION (North American models)



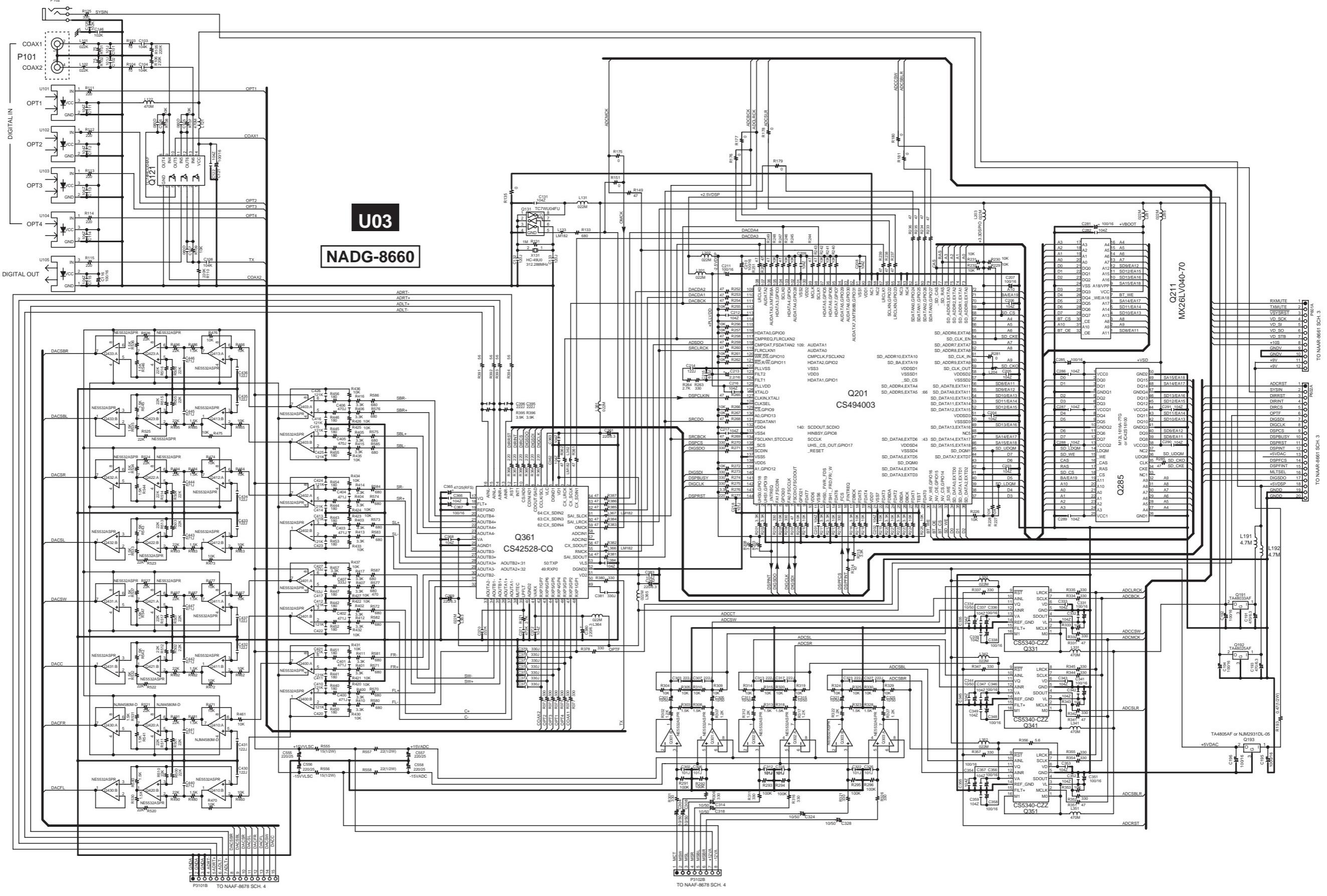
A

**SCHEMATIC
DIAGRAM 1**
**VIDEO
SECTION**



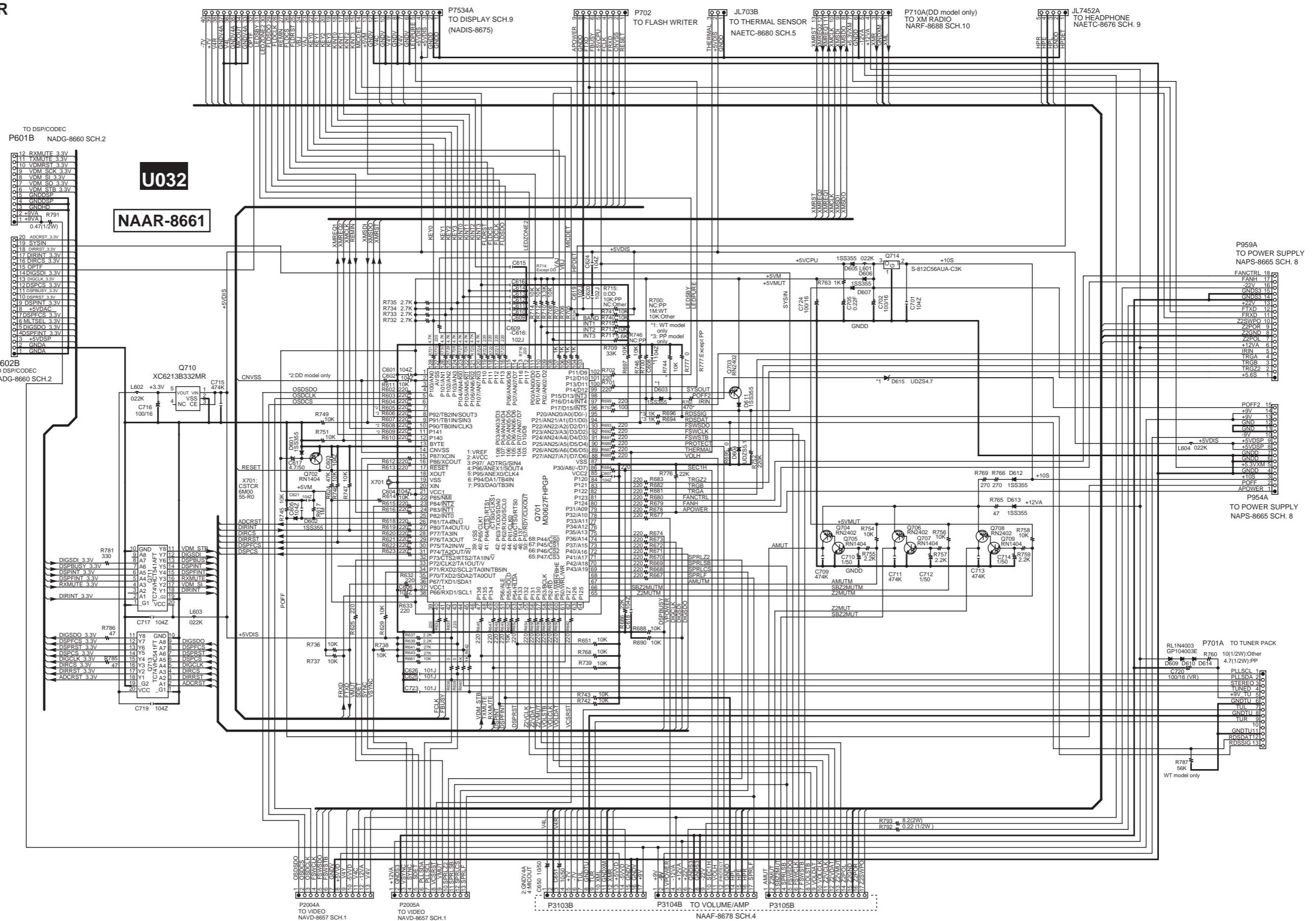
SCHEMATIC DIAGRAM 2

DSP SECTION

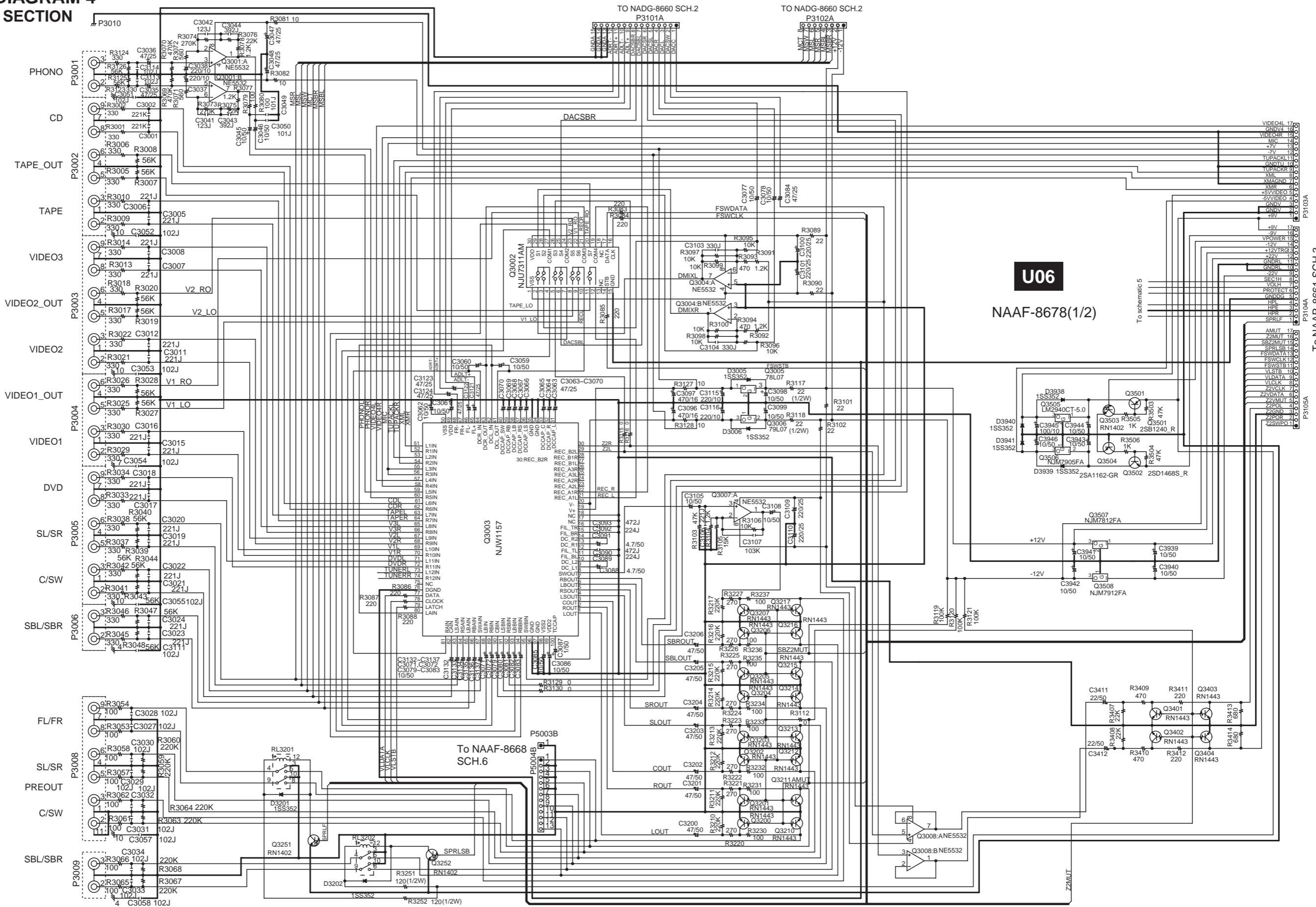


A **B** **C** **D** **E** **F** **G** **H**

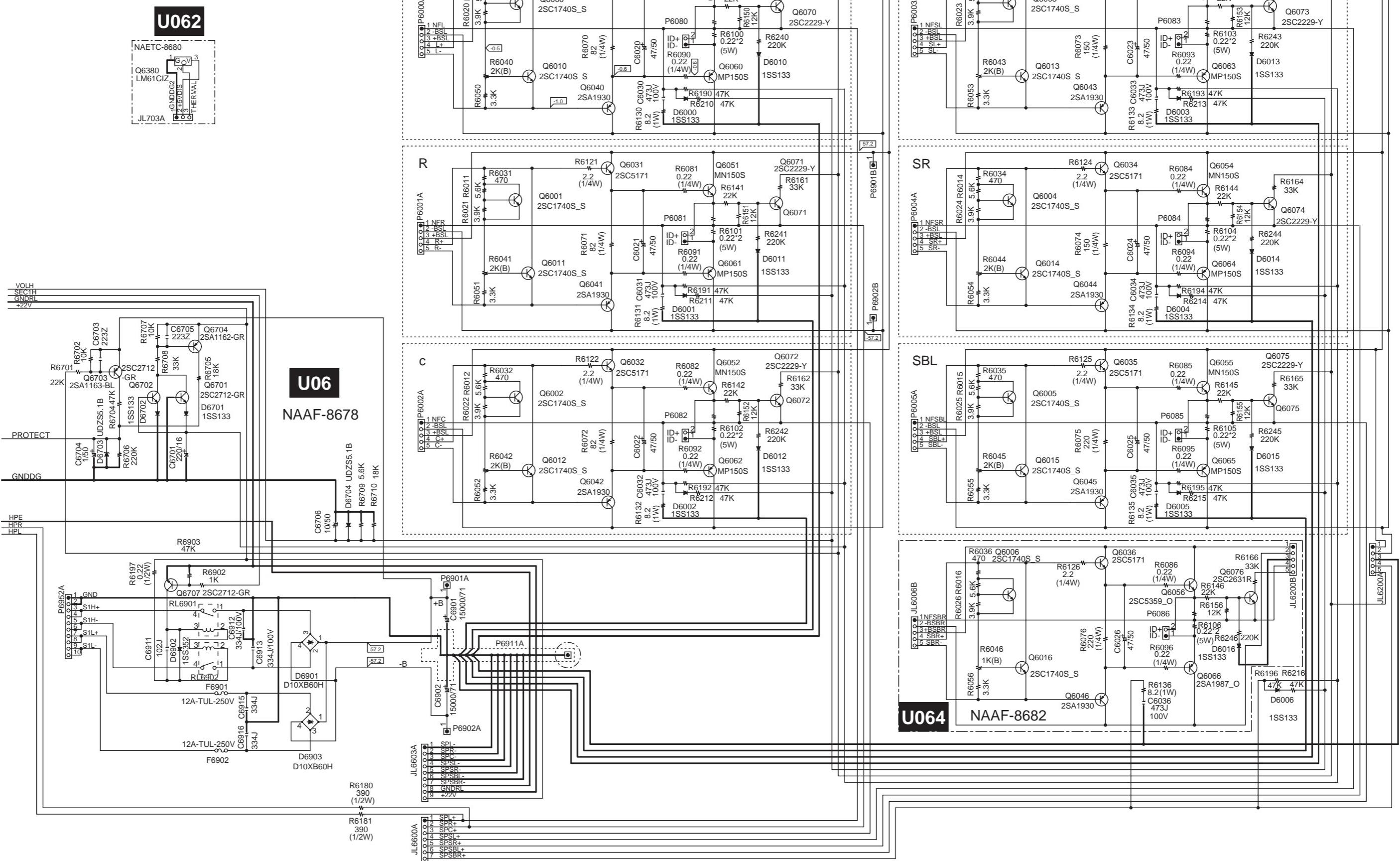
SCHEMATIC DIAGRAM 3
MICROPROCESSOR
SECTION



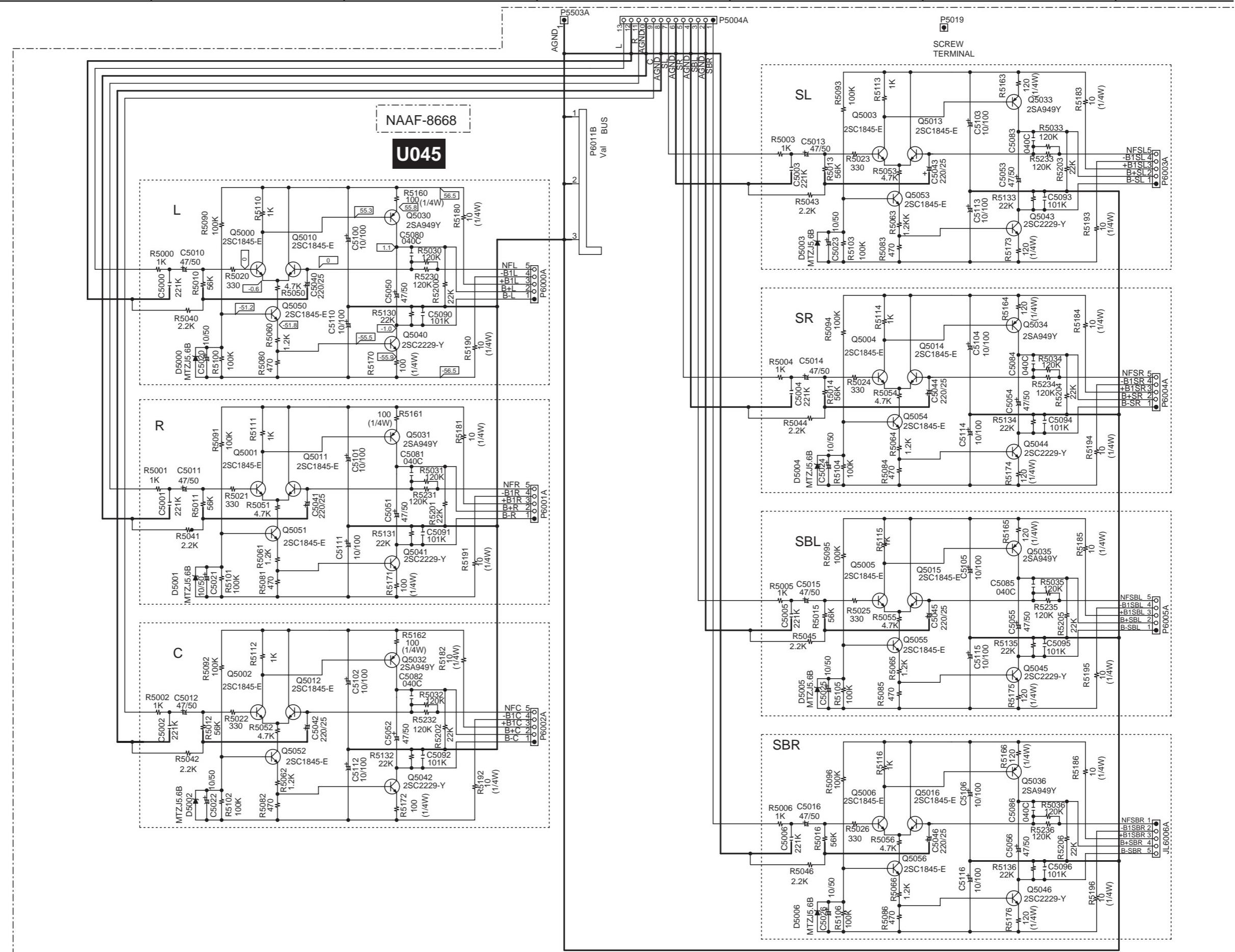
SCHEMATIC DIAGRAM 4 PREAMPLIFIER SECTION



SCHEMATIC DIAGRAM 5
POWER AMPLIFIER SECTION

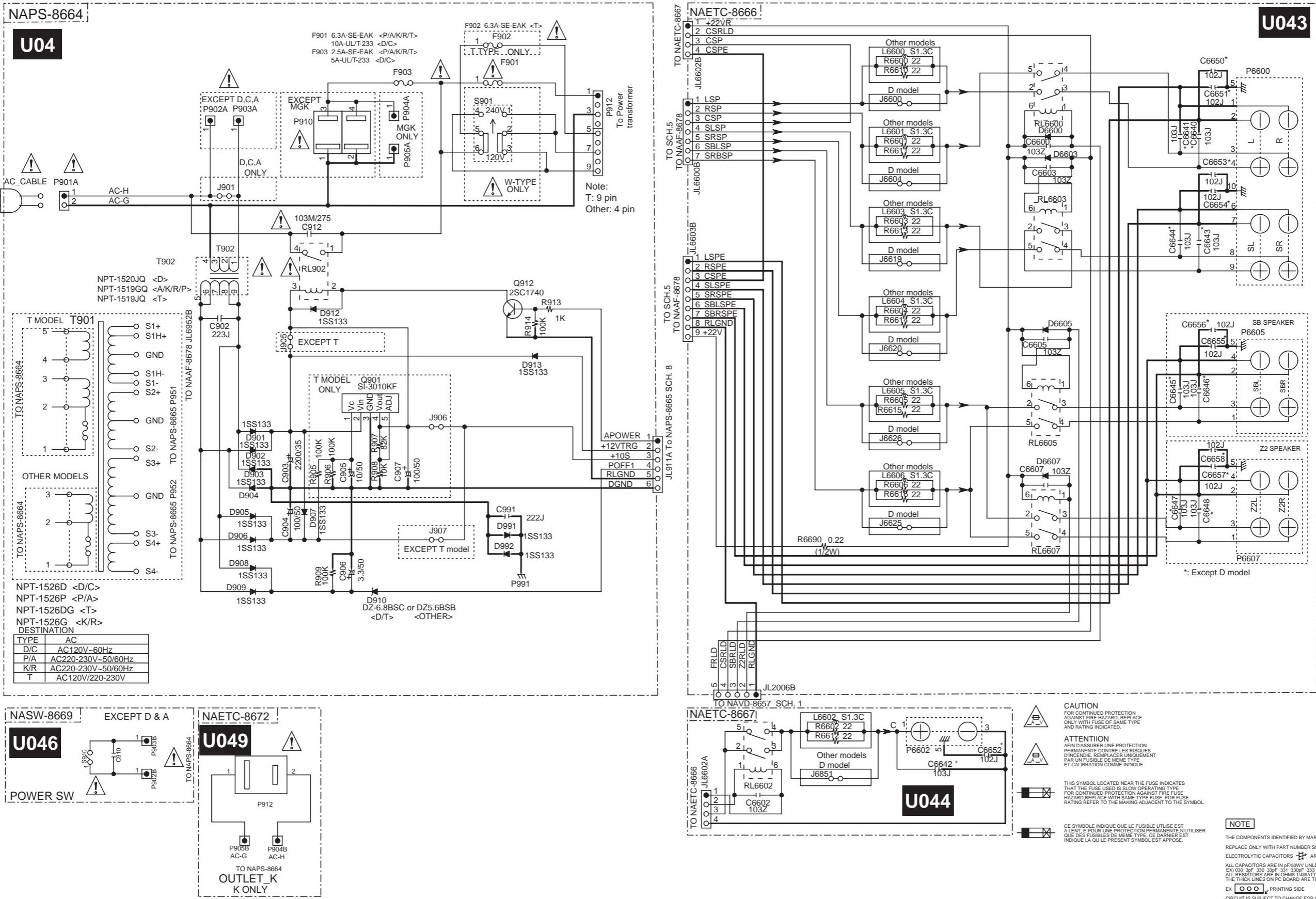


SCHEMATIC DIAGRAM 6 DRIVER SECTION



A **B** **C** **D** **E** **F** **G** **H**

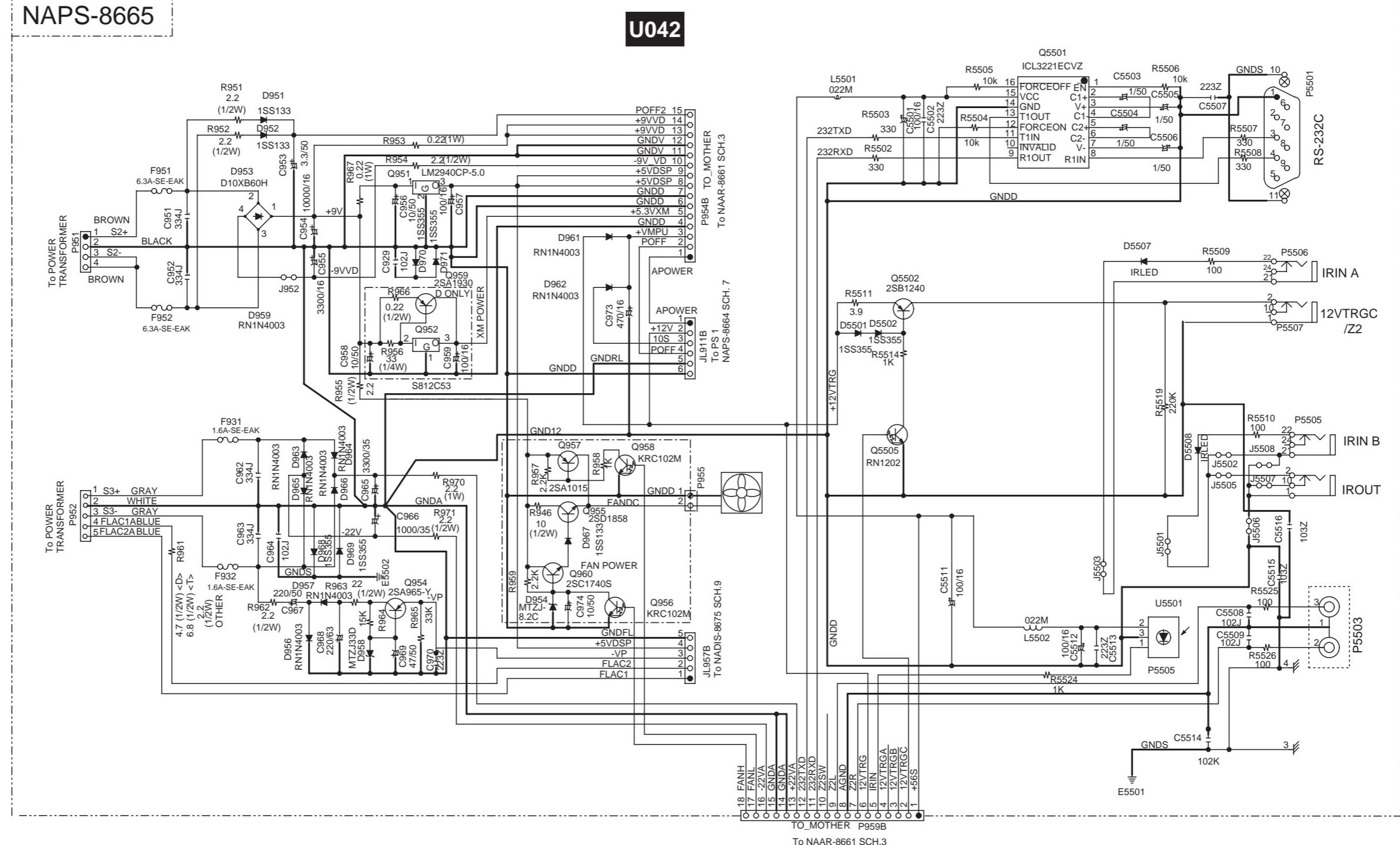
SCHEMATIC DIAGRAM 7
POWER SUPPLY SECTION



SCHEMATIC DIAGRAM 8 POWER SUPPLY SECTION

NAPS-8665

U04

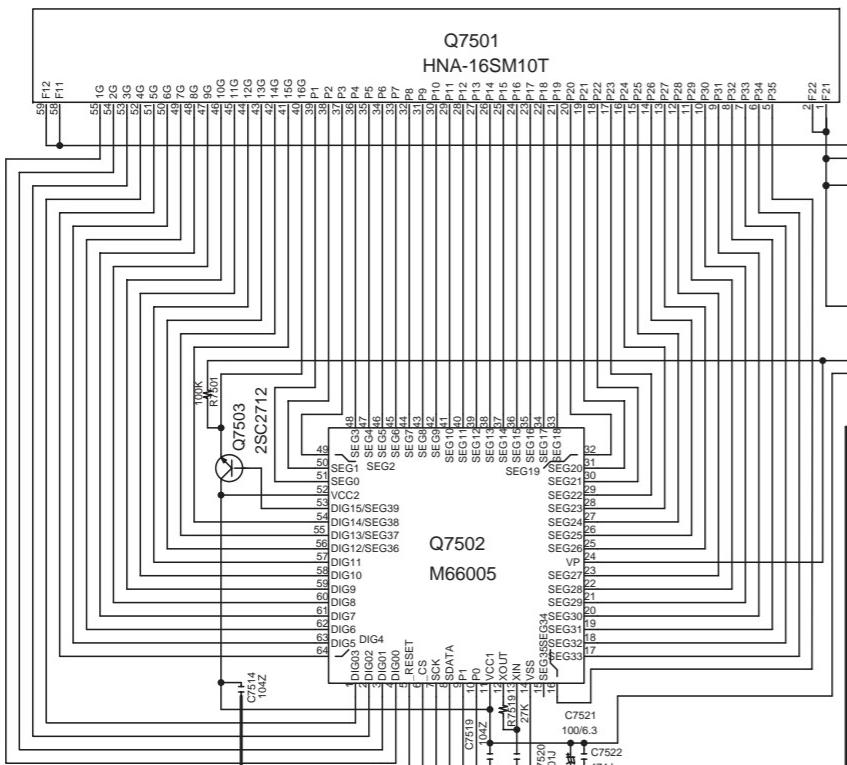


SCHEMATIC DIAGRAM 9

DISPLAY SECTION

NADIS-8675

1

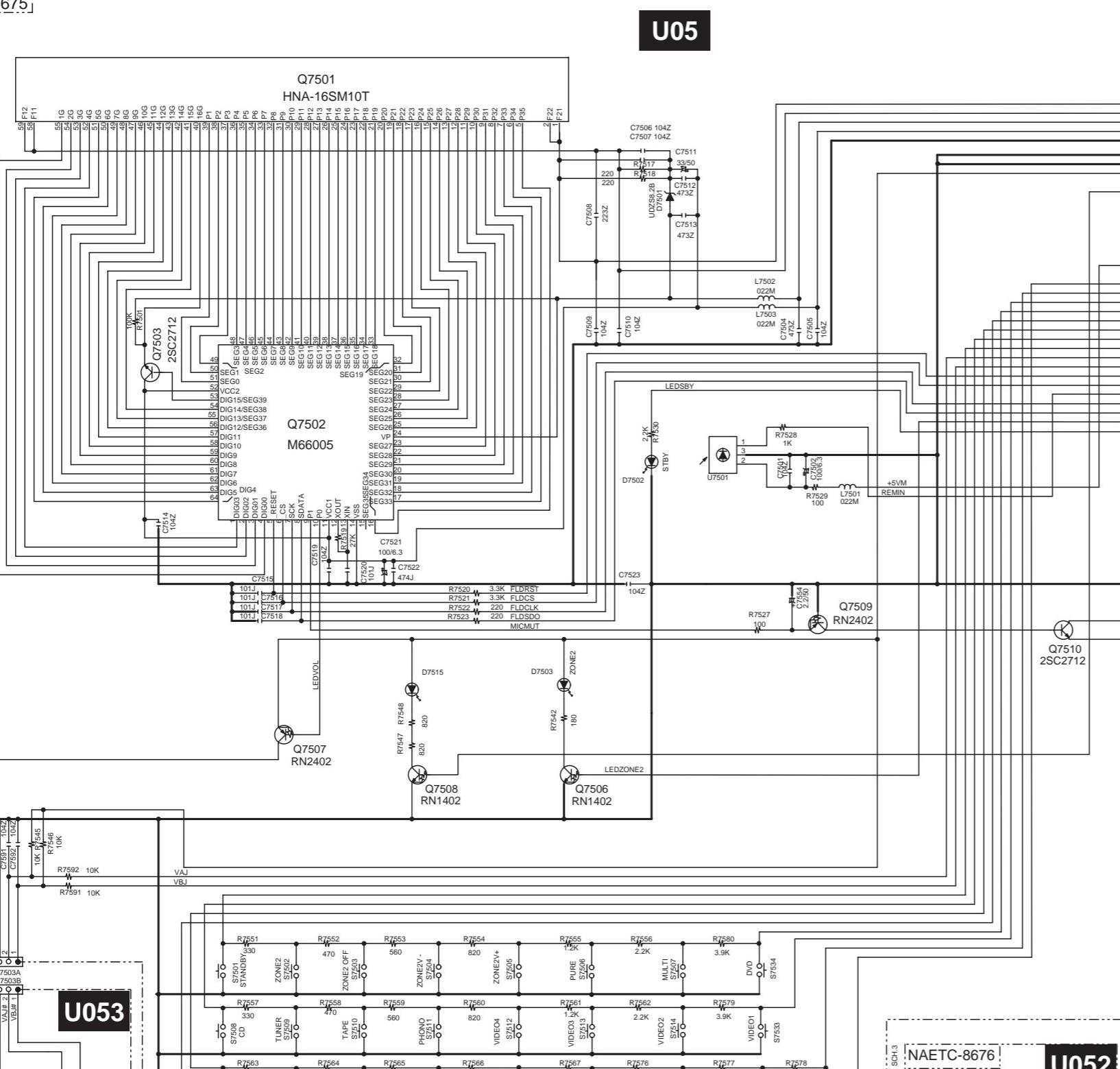
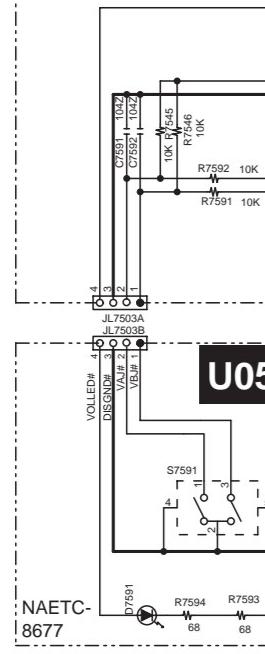


2

3

4

5



INAETC-8676

P7602

JL7542B To NAAR-8661 SCH.3

Q7601:A NE5532

Q7601:B NE5532

Q7602 P7602

Q7603 R7604

Q7604 R7605

Q7605 R7606

Q7606 R7607

Q7607 R7608

Q7608 R7609

Q7609 R7610

Q7610 R7611

Q7611 R7612

Q7612 R7613

Q7613 R7614

Q7614 R7615

Q7615 R7616

Q7616 R7617

Q7617 R7618

Q7618 R7619

Q7619 R7620

Q7620 R7621

Q7621 R7622

Q7622 R7623

Q7623 R7624

Q7624 R7625

Q7625 R7626

Q7626 R7627

Q7627 R7628

Q7628 R7629

Q7629 R7630

Q7630 R7631

Q7631 R7632

Q7632 R7633

Q7633 R7634

Q7634 R7635

Q7635 R7636

Q7636 R7637

Q7637 R7638

Q7638 R7639

Q7639 R7640

Q7640 R7641

Q7641 R7642

Q7642 R7643

Q7643 R7644

Q7644 R7645

Q7645 R7646

Q7646 R7647

Q7647 R7648

Q7648 R7649

Q7649 R7650

Q7650 R7651

Q7651 R7652

Q7652 R7653

Q7653 R7654

Q7654 R7655

Q7655 R7656

Q7656 R7657

Q7657 R7658

Q7658 R7659

Q7659 R7660

Q7660 R7661

Q7661 R7662

Q7662 R7663

Q7663 R7664

Q7664 R7665

Q7665 R7666

Q7666 R7667

Q7667 R7668

Q7668 R7669

Q7669 R7670

Q7670 R7671

Q7671 R7672

Q7672 R7673

Q7673 R7674

Q7674 R7675

Q7675 R7676

Q7676 R7677

Q7677 R7678

Q7678 R7679

Q7679 R7680

Q7680 R7681

Q7681 R7682

Q7682 R7683

Q7683 R7684

Q7684 R7685

Q7685 R7686

Q7686 R7687

Q7687 R7688

Q7688 R7689

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Q7692 R7693

Q7693 R7694

Q7694 R7695

Q7695 R7696

Q7696 R7697

Q7697 R7698

Q7698 R7699

Q7699 R7700

Q7700 R7701

Q7701 R7702

Q7702 R7703

Q7703 R7704

Q7704 R7705

Q7705 R7706

Q7706 R7707

Q7707 R7708

Q7708 R7709

Q7709 R7710

Q7710 R7711

Q7711 R7712

Q7712 R7713

Q7713 R7714

Q7714 R7715

Q7715 R7716

Q7716 R7717

Q7717 R7718

Q7718 R7719

Q7719 R7720

Q7720 R7721

Q7721 R7722

Q7722 R7723

Q7723 R7724

Q7724 R7725

Q7725 R7726

Q7726 R7727

Q7727 R7728

Q7728 R7729

Q7729 R7730

Q7730 R7731

Q7731 R7732

Q7732 R7733

Q7733 R7734

Q7734 R7735

Q7735 R7736

Q7736 R7737

Q7737 R7738

Q7738 R7739

Q7739 R7740

Q7740 R7741

Q7741 R7742

Q7742 R7743

Q7743 R7744

Q7744 R7745

Q7745 R7746

Q7746 R7747

Q7747 R7748

Q7748 R7749

Q7749 R7750

Q7750 R7751

Q7751 R7752

Q7752 R7753

Q7753 R7754

Q7754 R7755

Q7755 R7756

Q7756 R7757

Q7757 R7758

Q7758 R7759

Q7759 R7760

Q7760 R7761

Q7761 R7762

Q7762 R7763

Q7763 R7764

Q7764 R7765

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Q7768 R7769

Q7769 R7770

Q7770 R7771

A

B

C

D

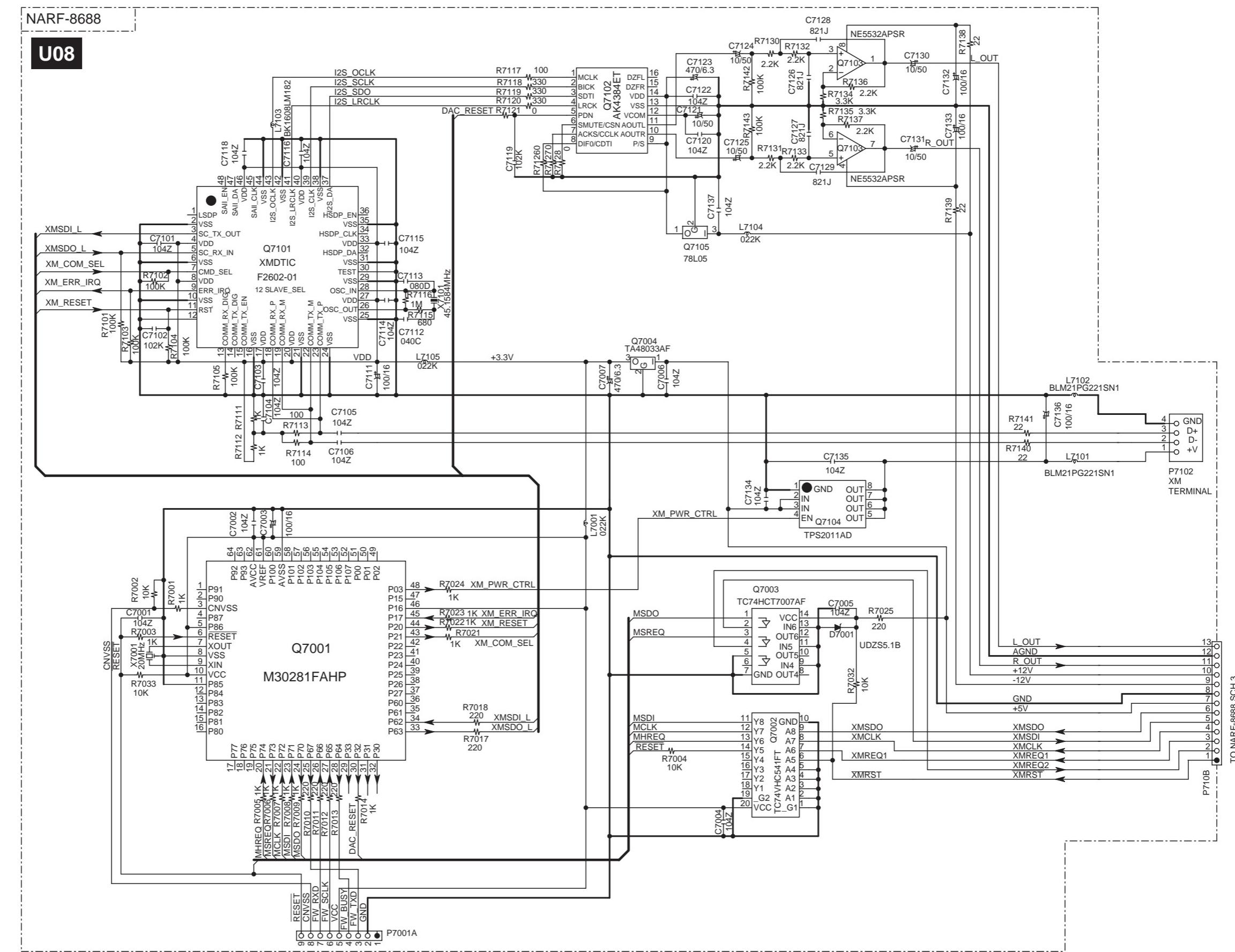
E

F

G

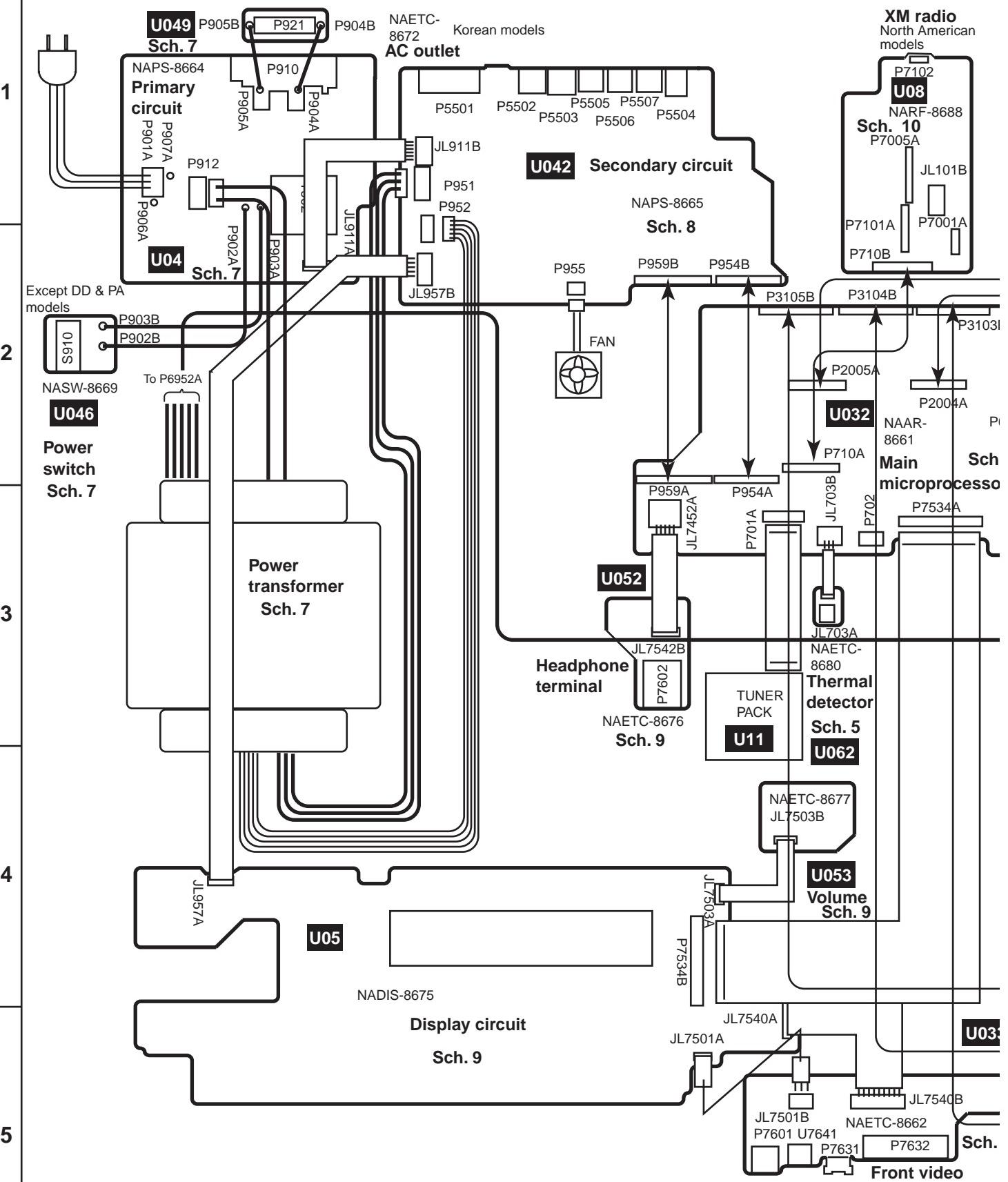
H

SCHEMATIC DIAGRAM 10
XM RADIO SECTION (North American models)



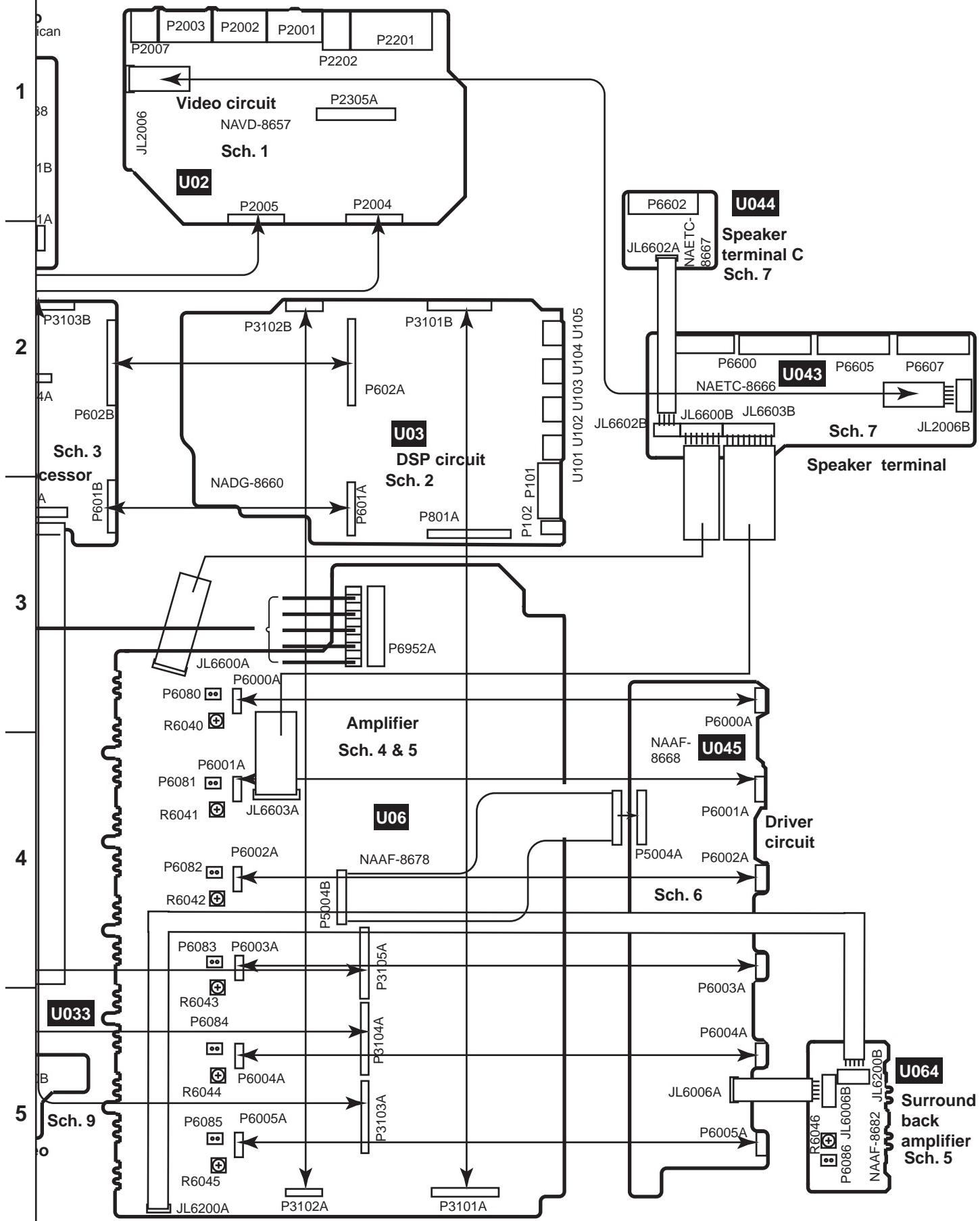
A B C D

PRINTED CIRCUIT BOARD CONNECTION DIAGRAM

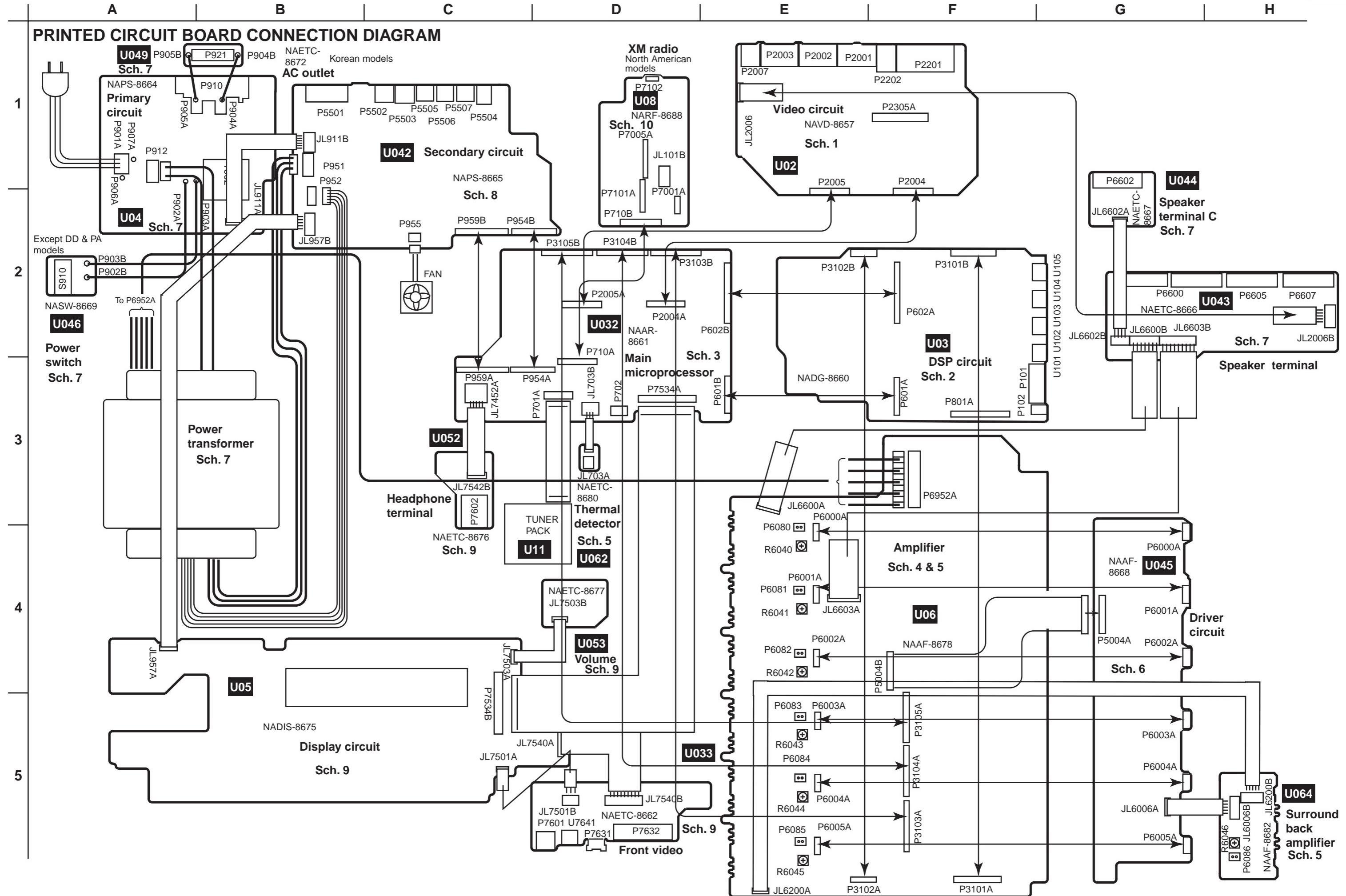


A**B****C****D**

PRINTED CIRCUIT BOARD CONNECTION DIAGRAM



PRINTED CIRCUIT BOARD CONNECTION DIAGRAM



A

B

C

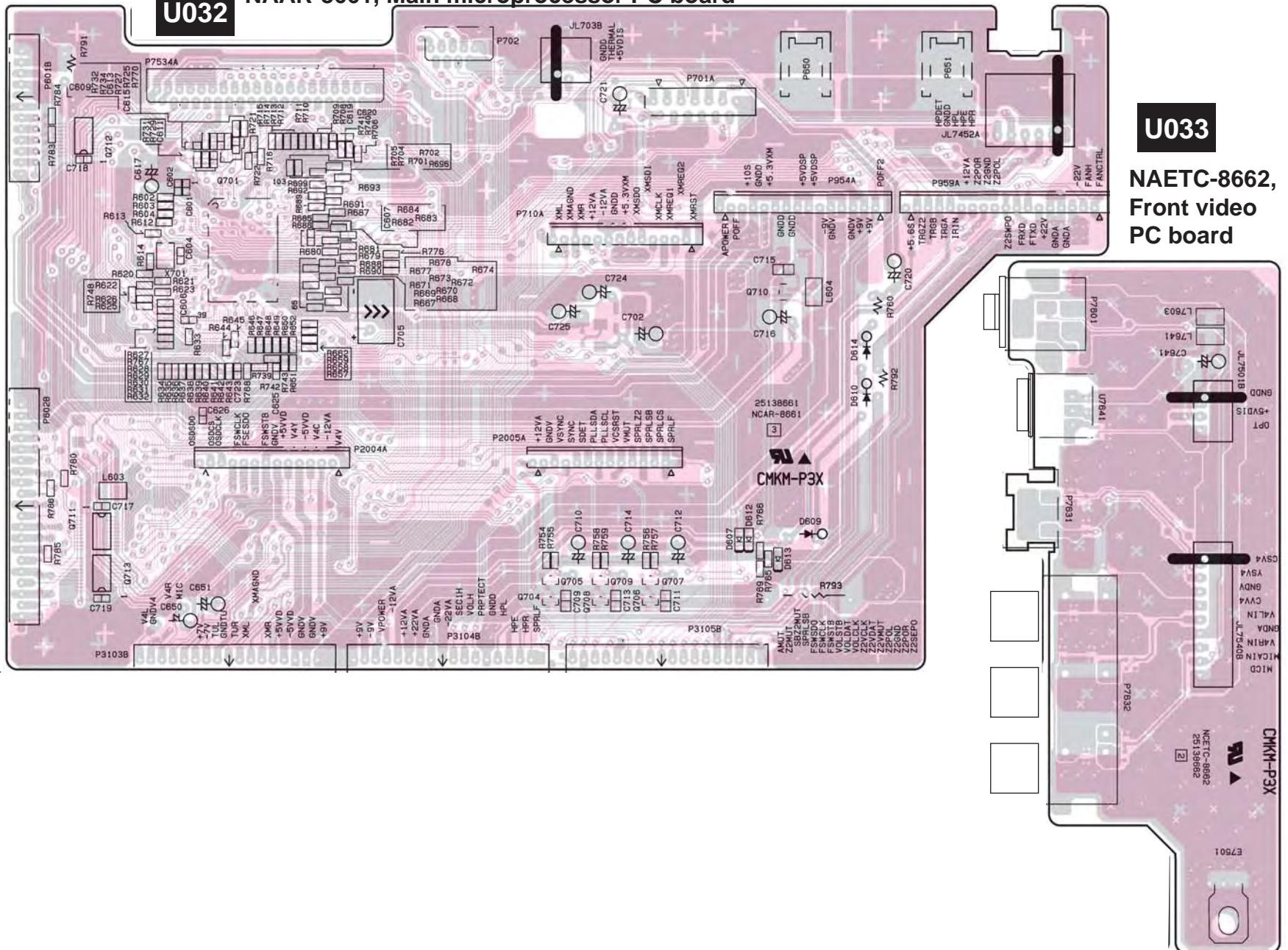
D

E

PRINTED CIRCUIT BOARD VIEW 1-1

Digital section

NAAR-8661, Main microprocessor PC board



A

B

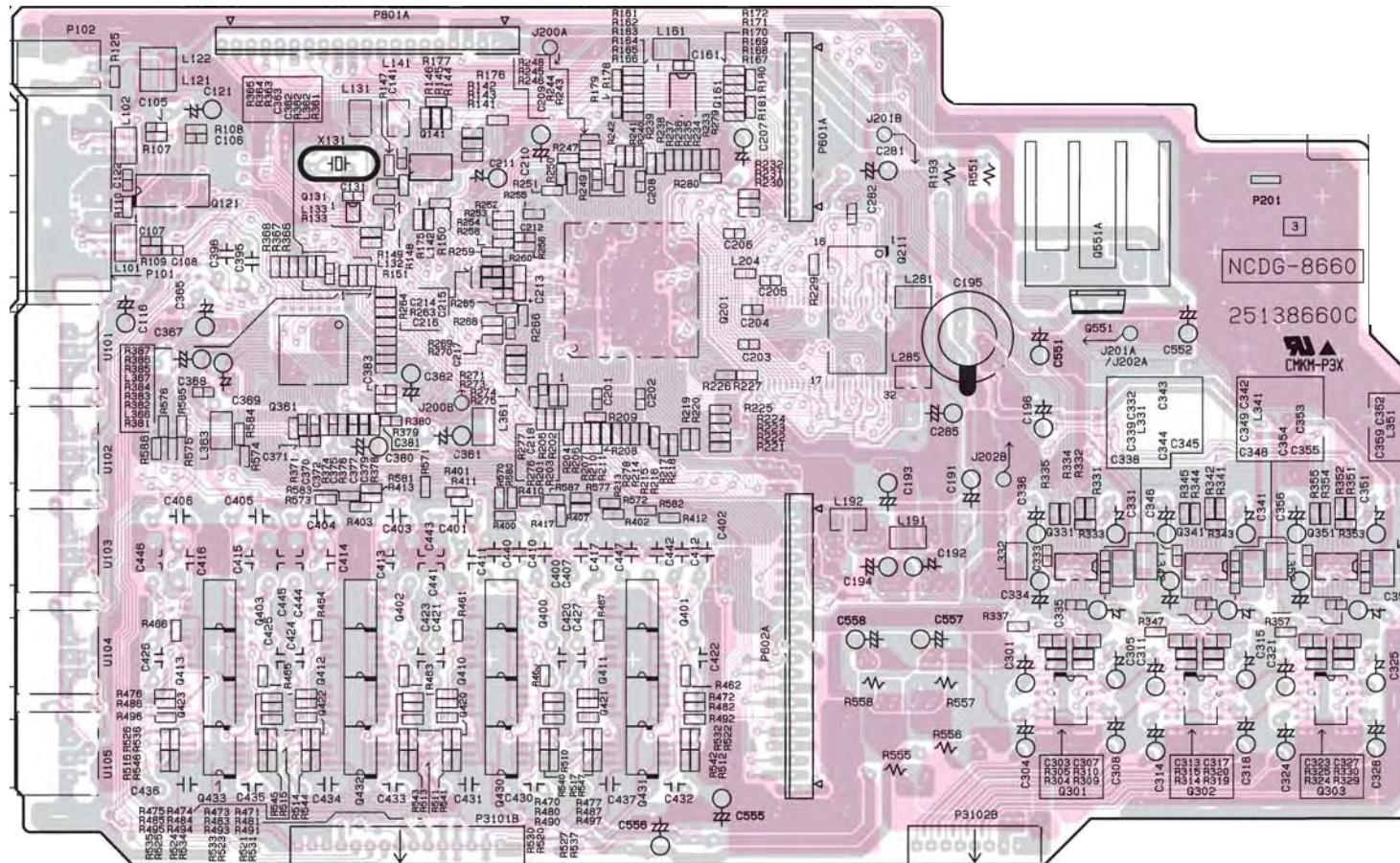
C

D

E

PRINTED CIRCUIT BOARD VIEW 1-1

Digital section



U03 NADG-8660, DSP circuit PC board

A

B

C

D

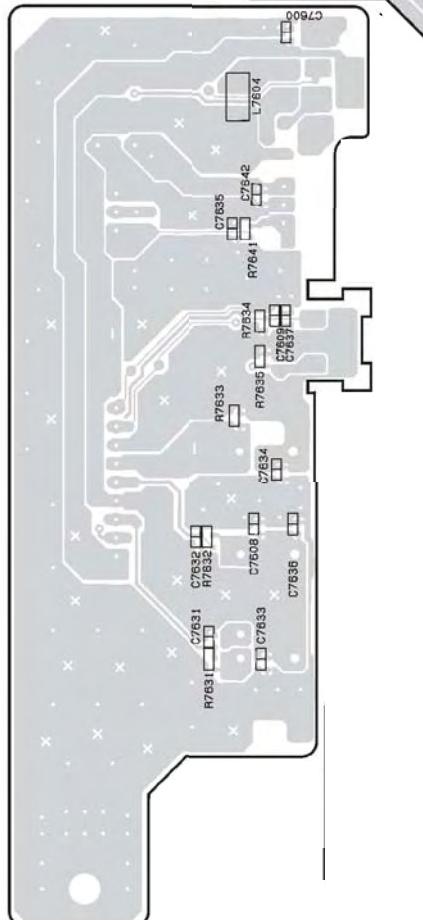
E

PRINTED CIRCUIT BOARD VIEW 1-2

Digital section

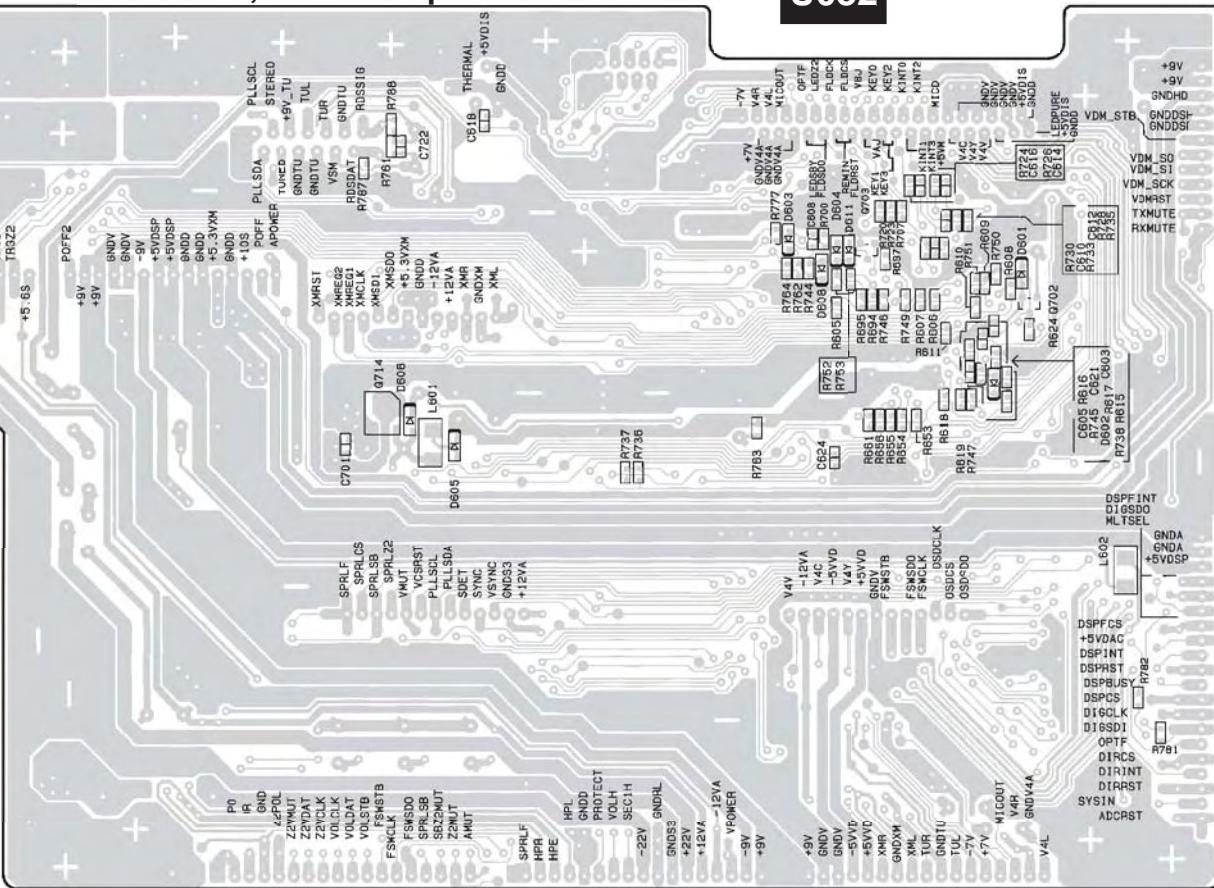
U033

**NAETC-8662,
Front video
PC board**



NAAR-8661, Main microprocessor PC board

U032



A

B

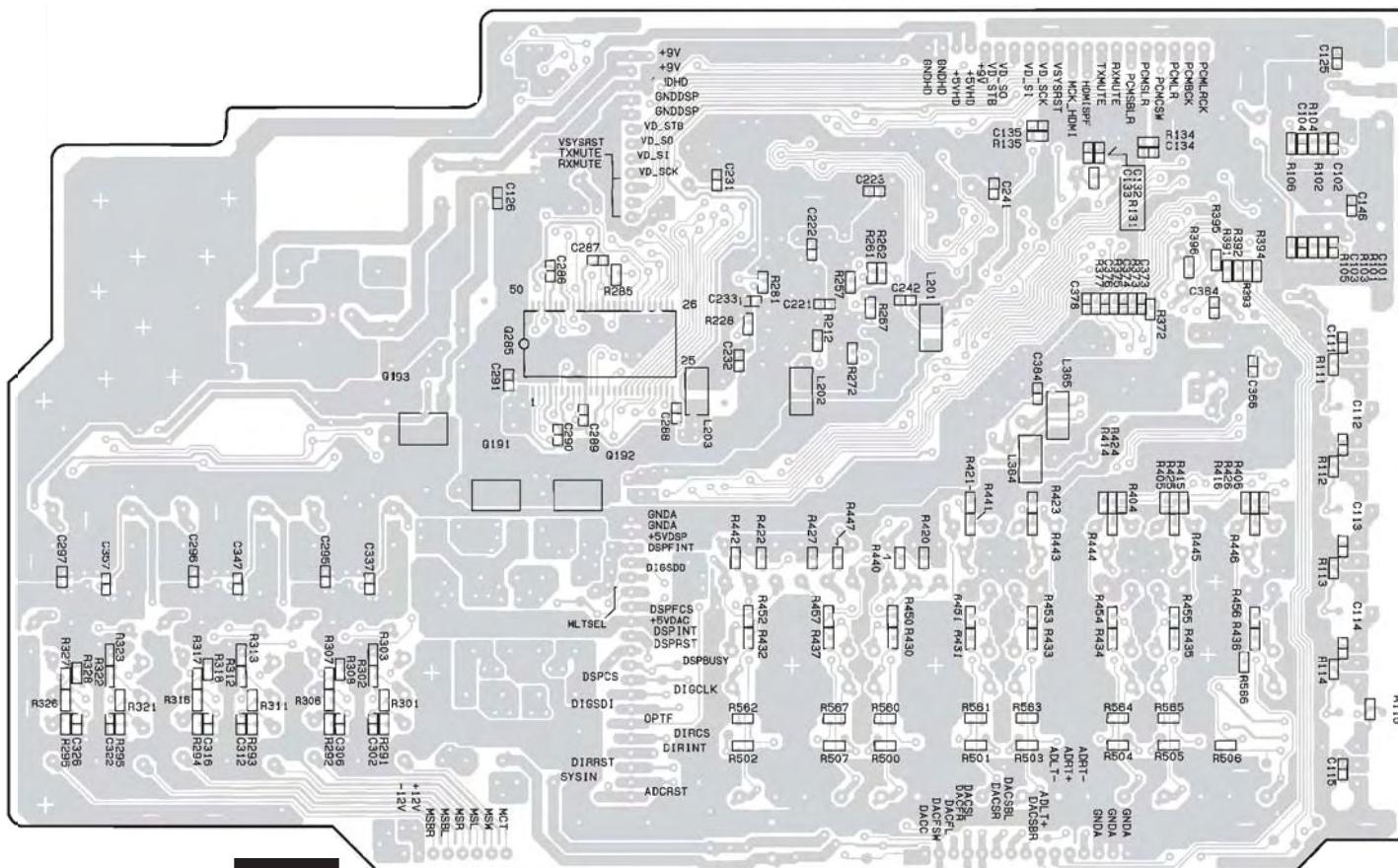
C

□

E

PRINTED CIRCUIT BOARD VIEW 1-2

Digital section



NADG-8660, DSP circuit PC board

1

2

3

4

A

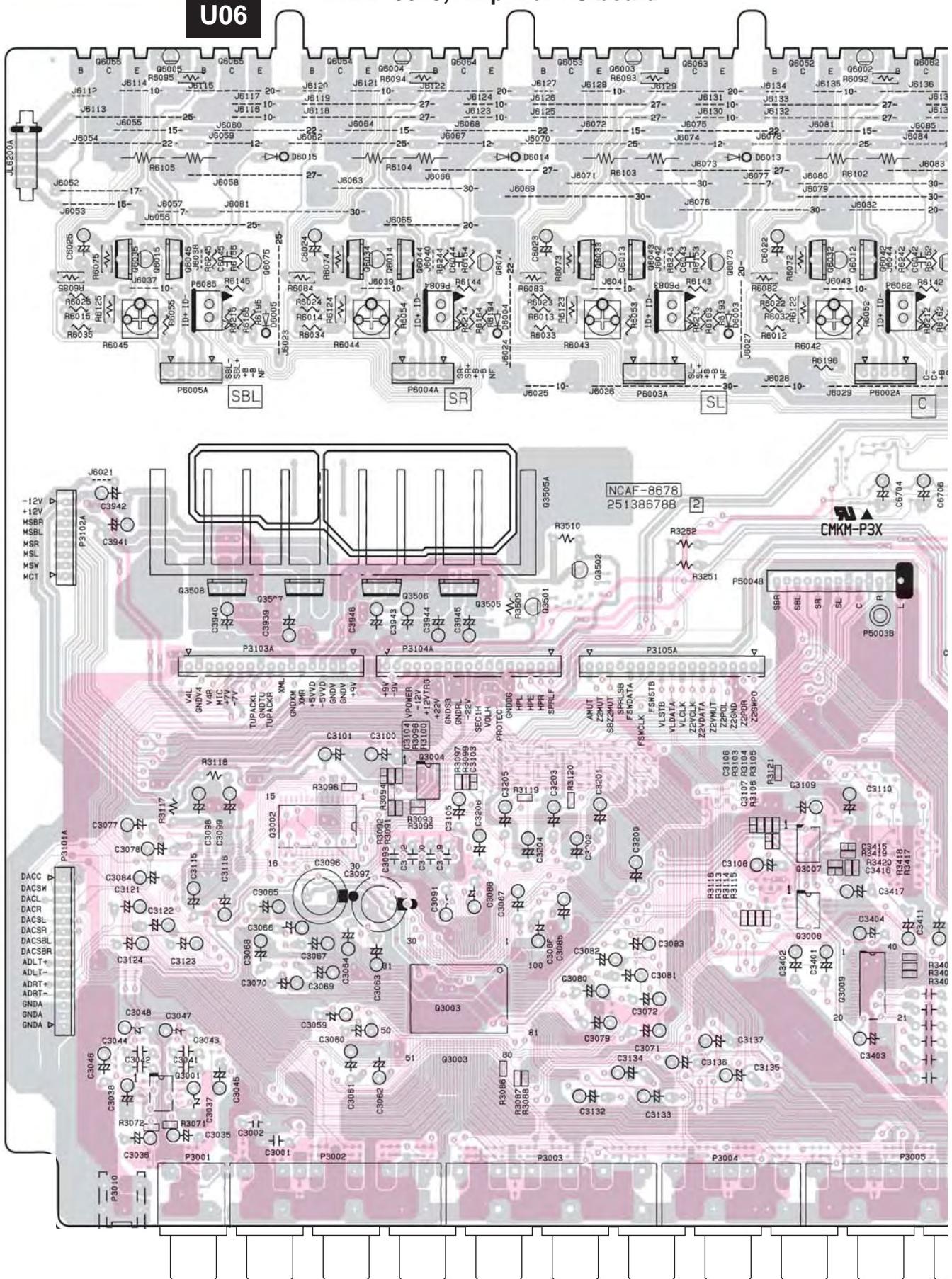
B

C

D

PRINTED CIRCUIT BOARD VIEW 2-1 Amplifier section

NAAF-8678, Amplifier PC board



A

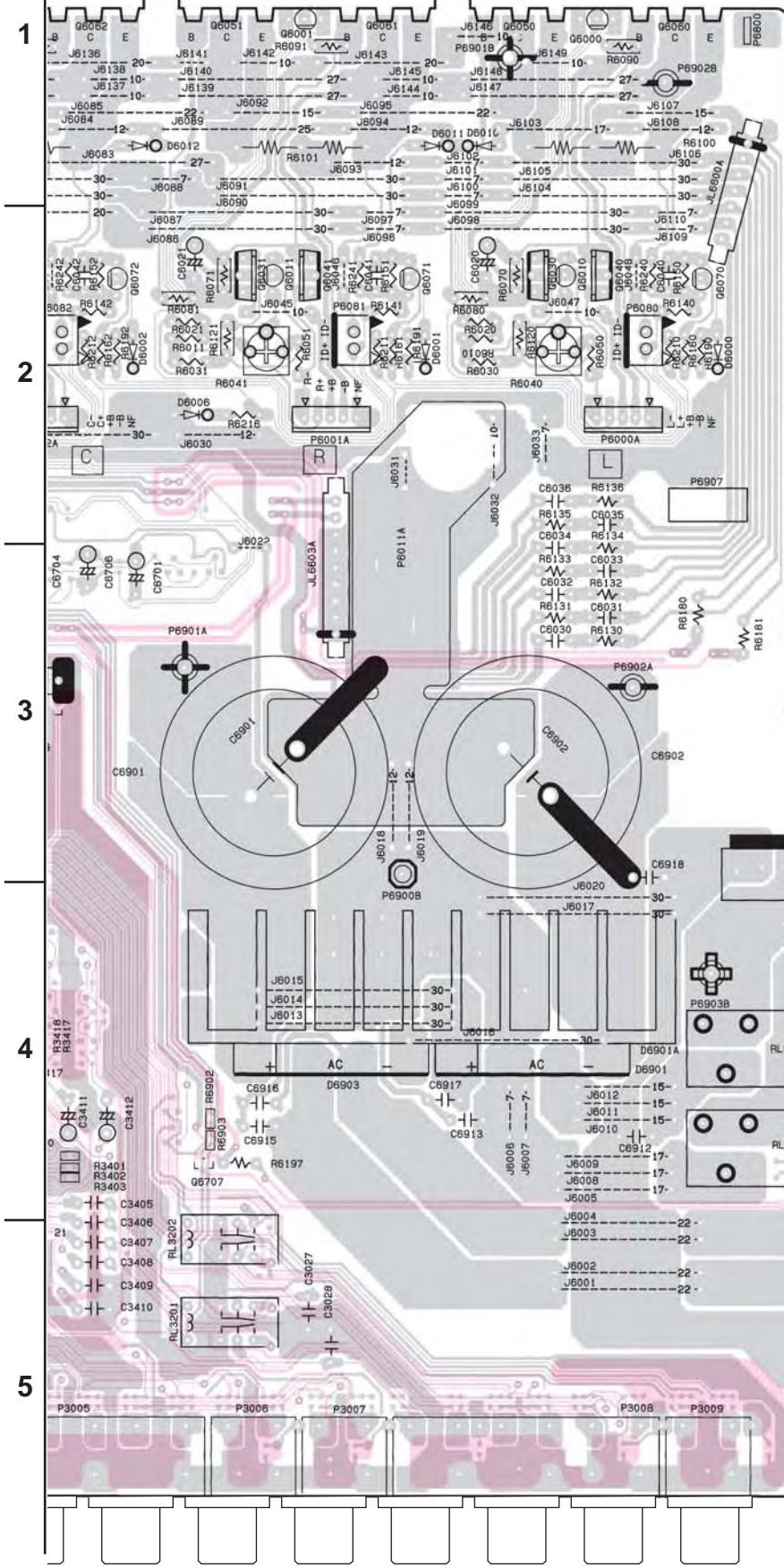
B

C

D

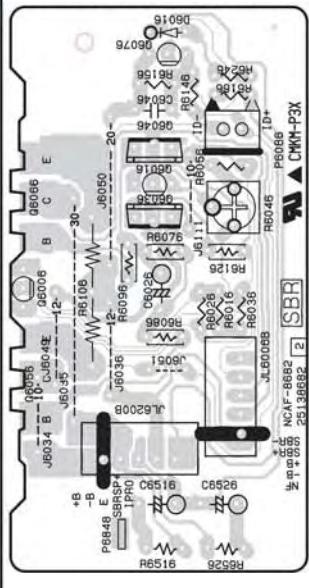
PRINTED CIRCUIT BOARD VIEW 2 Amplifier section

NAAF-8678, Amplifier PC board

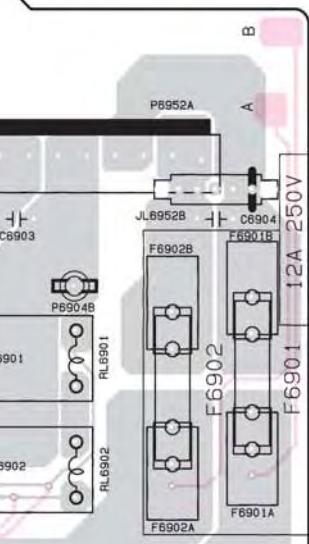


U064

**NAAF-8682,
Surround back
amplifier PC
board**



U06



U062

**NAETC-8680,
Thermal detector
PC board**

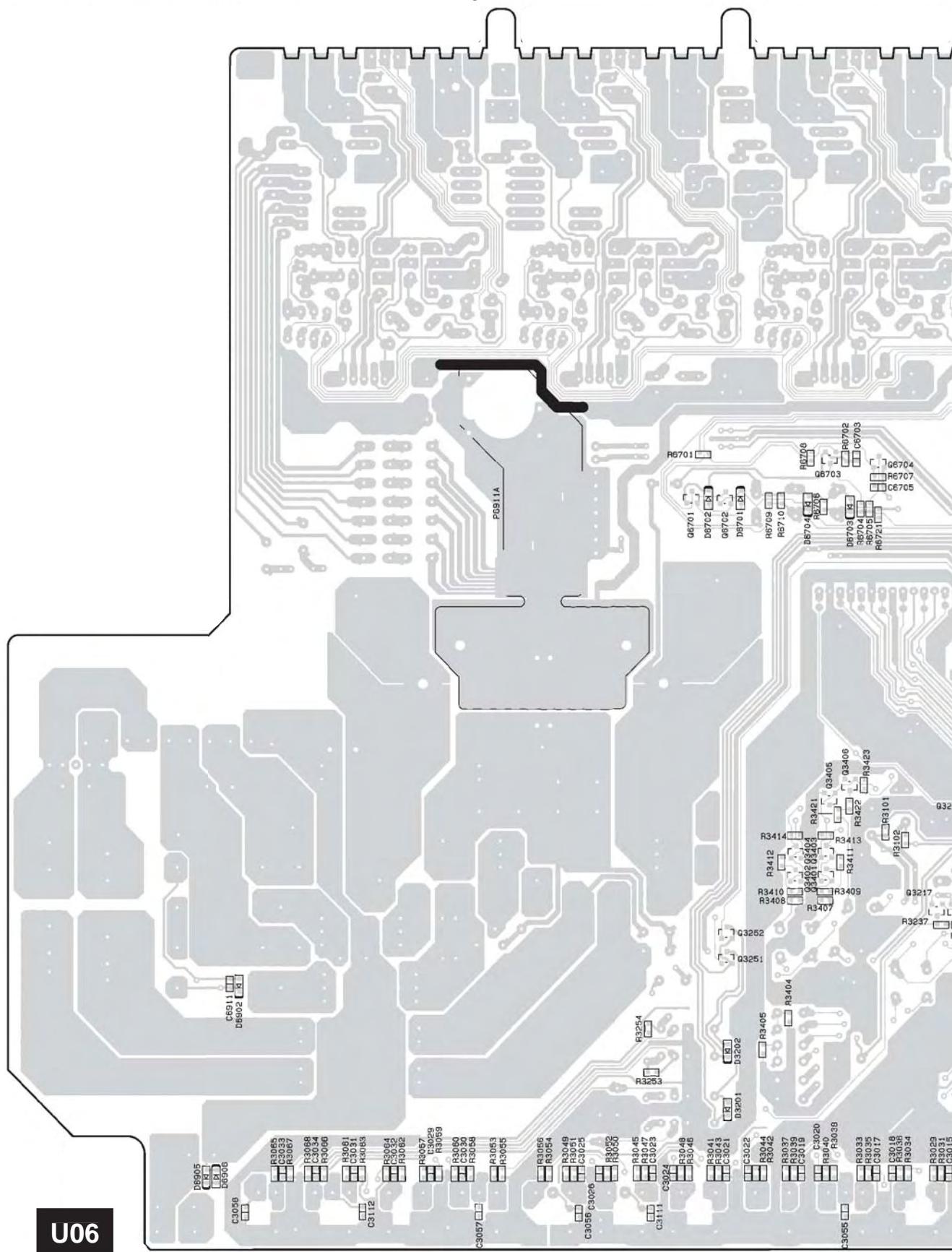
A

B

C

D

PRINTED CIRCUIT BOARD VIEW 2-2 Amplifier section



NAAF-8678, Amplifier PC board

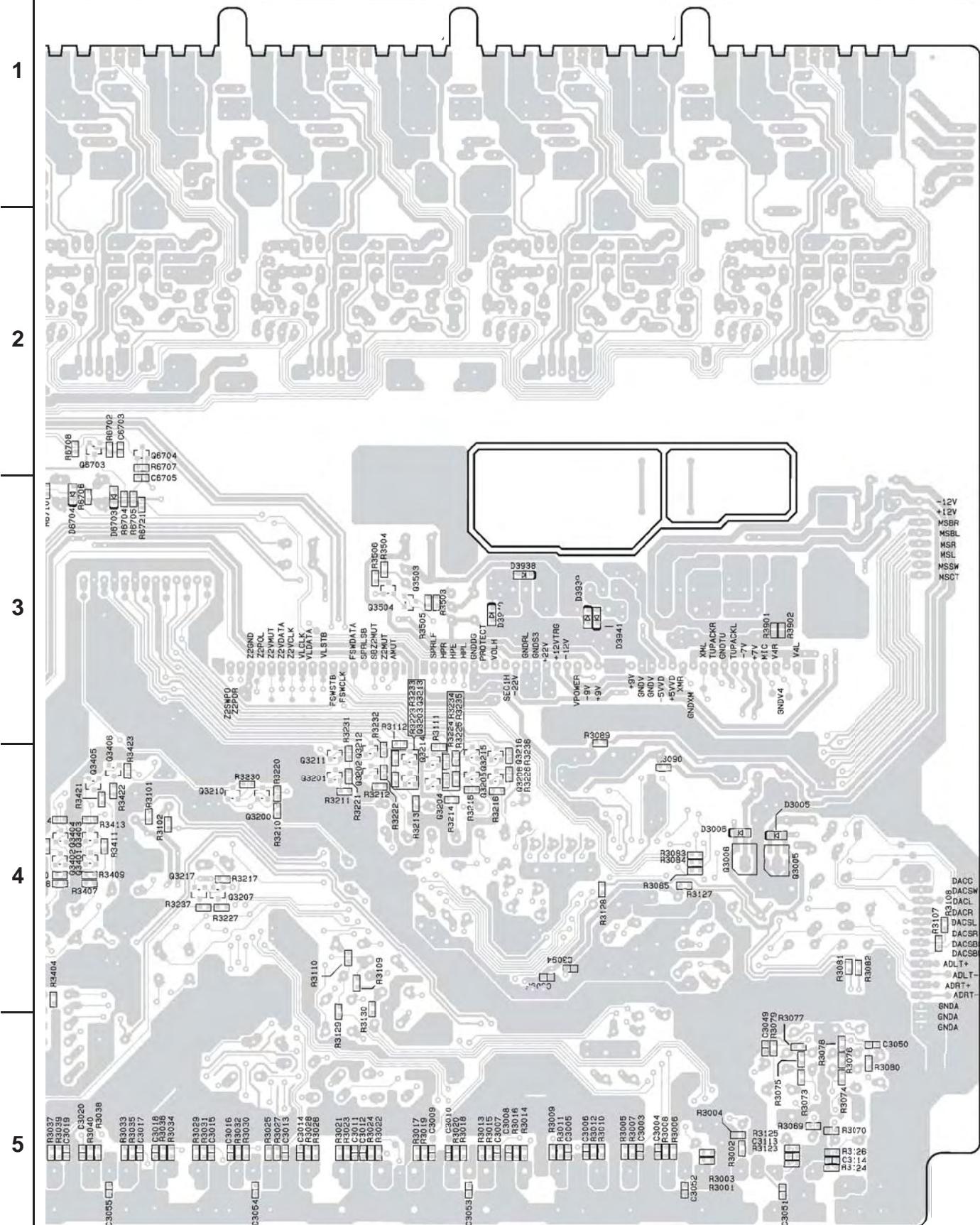
A

B

C

D

PRINTED CIRCUIT BOARD VIEW 2-2 Amplifier section



A

B

C

D

PRINTED CIRCUIT BOARD VIEW 3-1

Display section

1

2

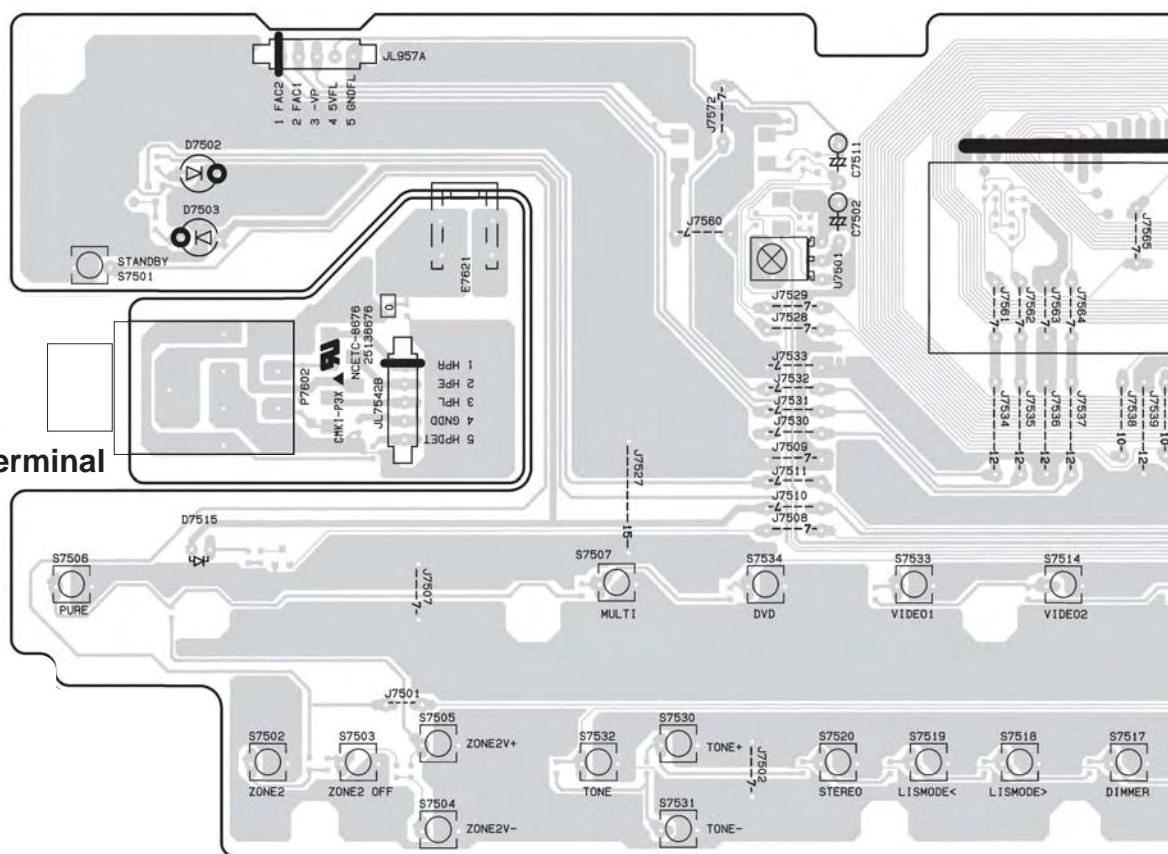
3

4

5

U052

**NAETC-8678,
Headphone terminal
PC board**

**U05****NADIS-8675,Display circuit PC board**

A

B

C

D

PRINTED CIRCUIT BOARD VIEW 3-1

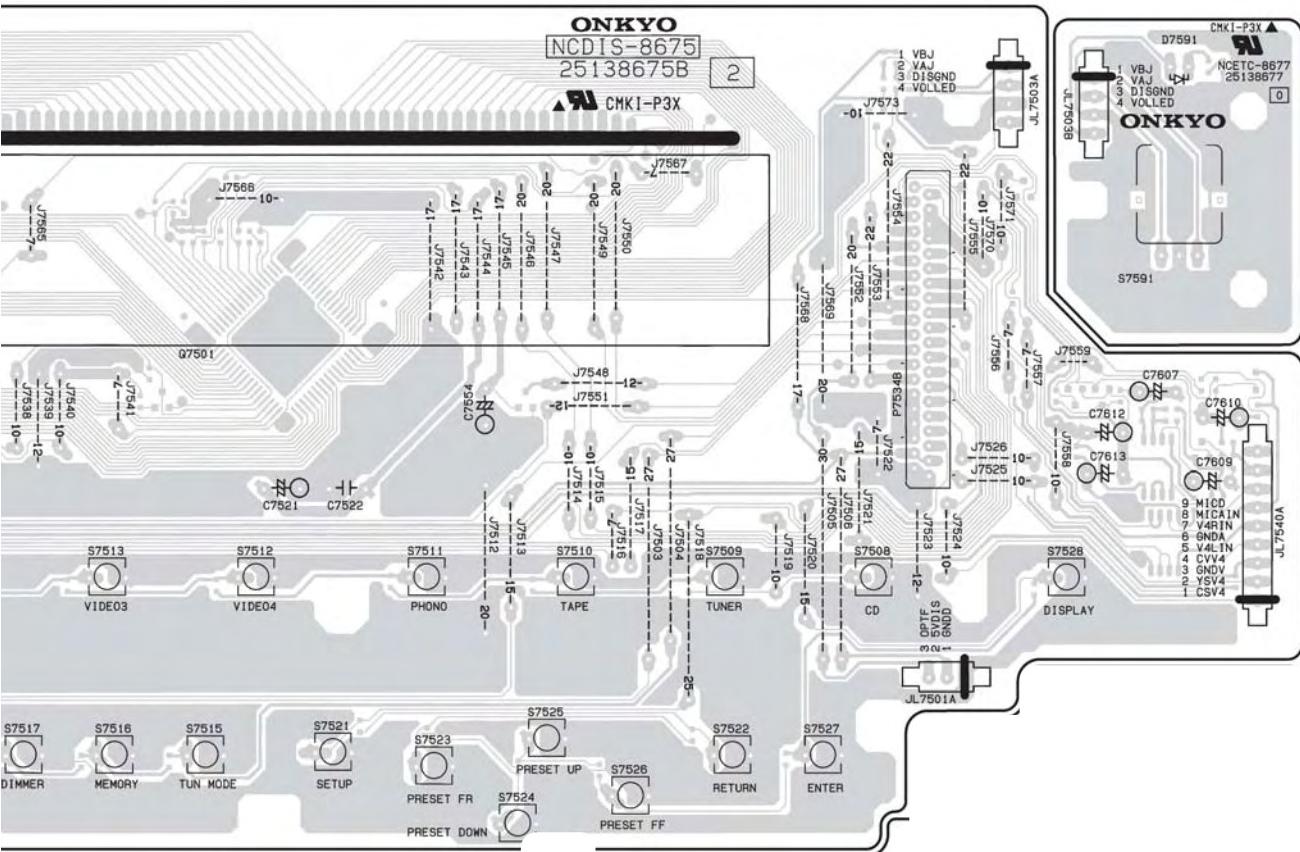
Display section

1

U053

NAETC-8677,
Volume PC board

2



3

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U05

NADIS-8675,Display circuit PC board

5

A

B

C

D

PRINTED CIRCUIT BOARD VIEW 3-2

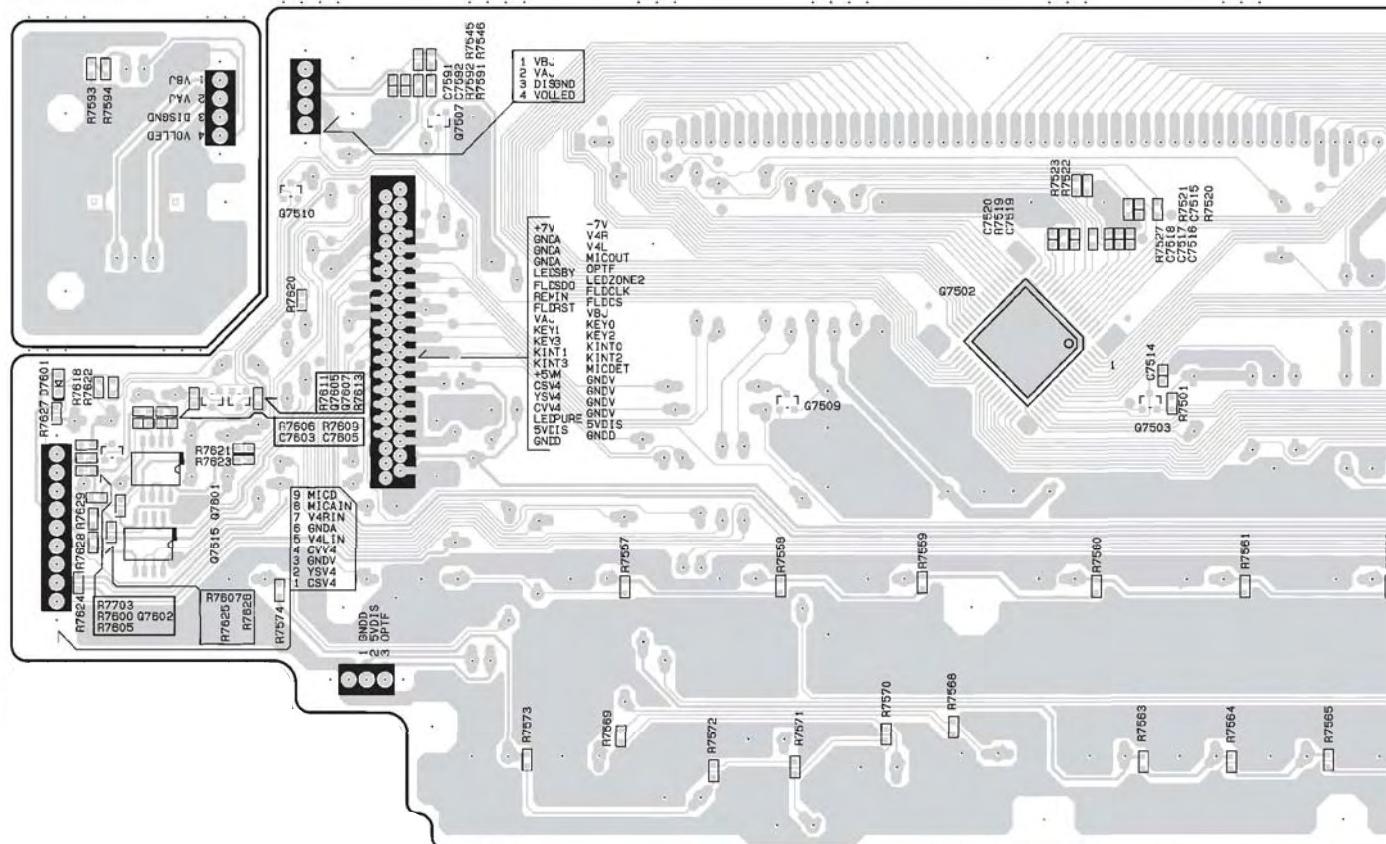
Display section

1

U053

**NAETC-8677, Volume
PC board**

2



3

4

5

U05 NADIS-8675, Display circuit PC board

A

B

0

D

PRINTED CIRCUIT BOARD VIEW 3-2

Display section

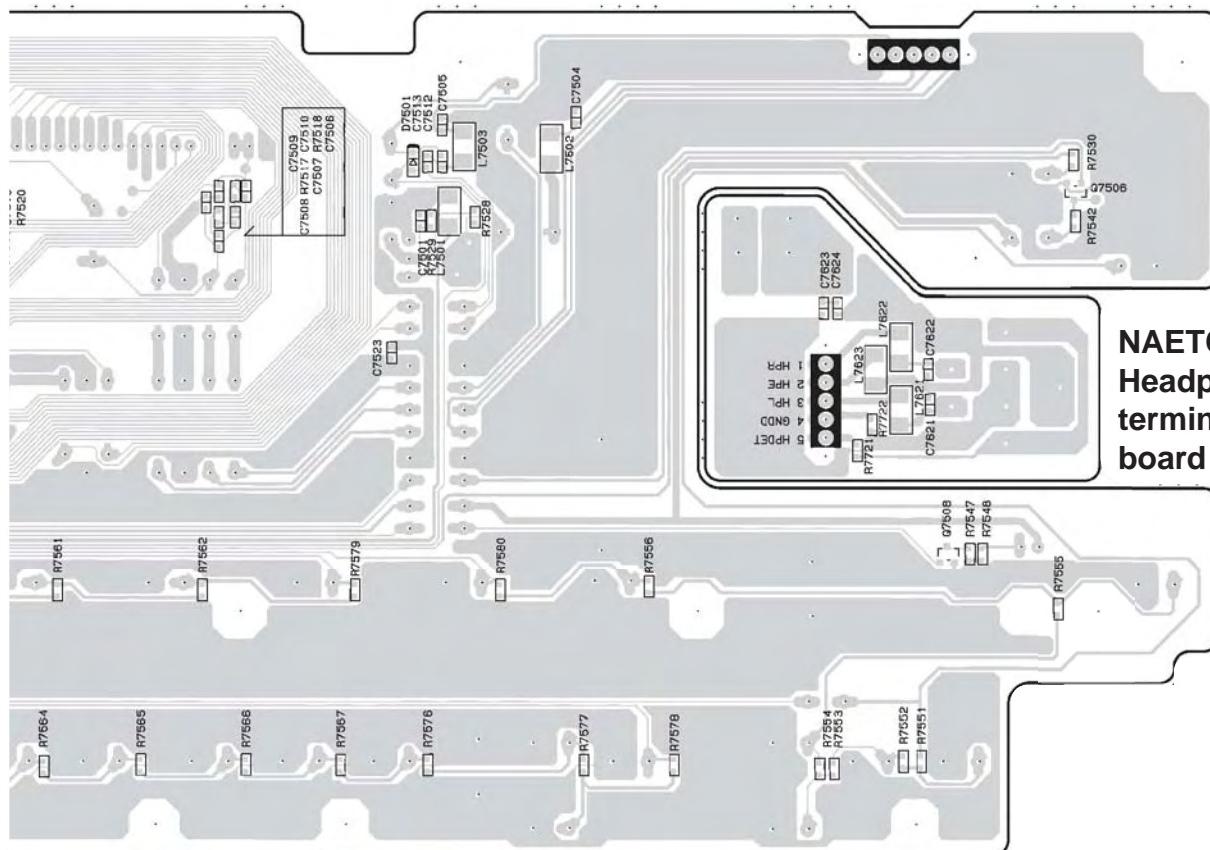
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U052

**NAETC-8676,
Headphone
terminal PC
board**

U05

NADIS-8675, Display circuit PC board

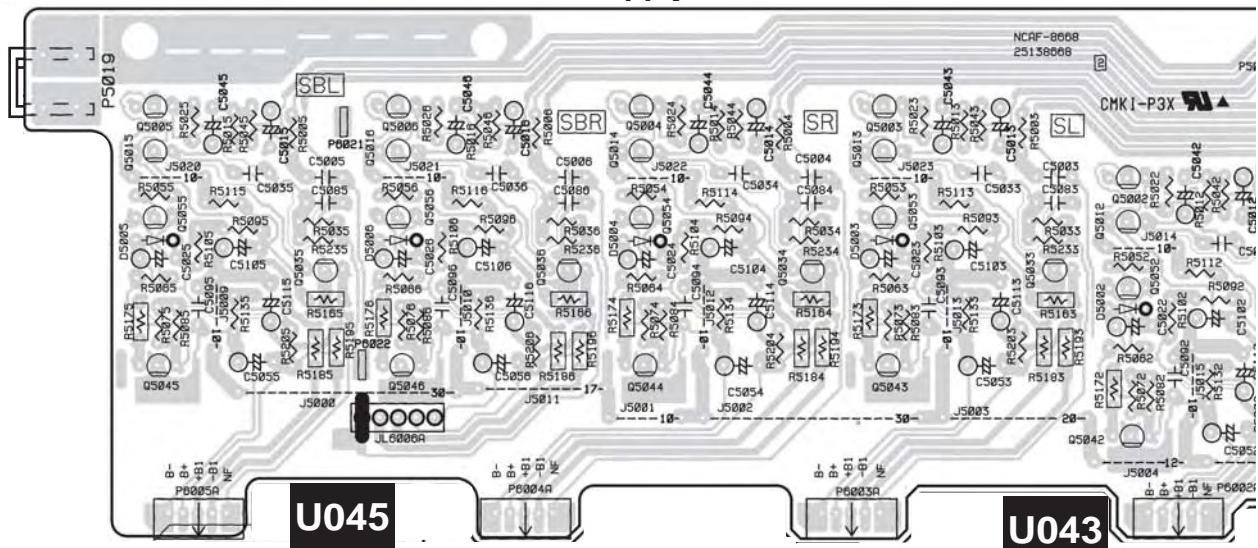
A

B

C

D

PRINTED CIRCUIT BOARD VIEW 4 Power supply and Driver sections



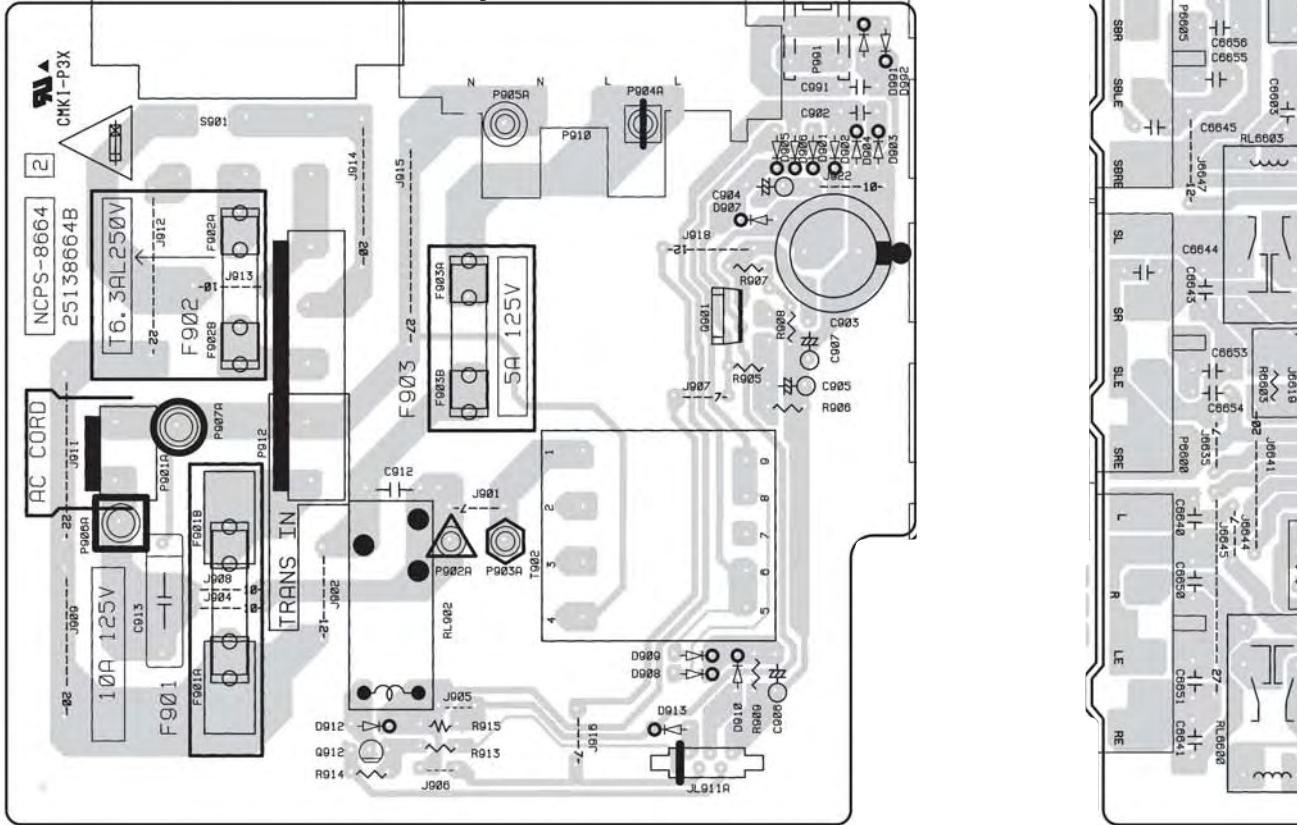
NAAF-8668, Driver circuit PC board

U046 NAETC-8666, Spea

**NASW-8669,
Power switch
PC board**

U04

NAPS-8664, Primary circuit PC board



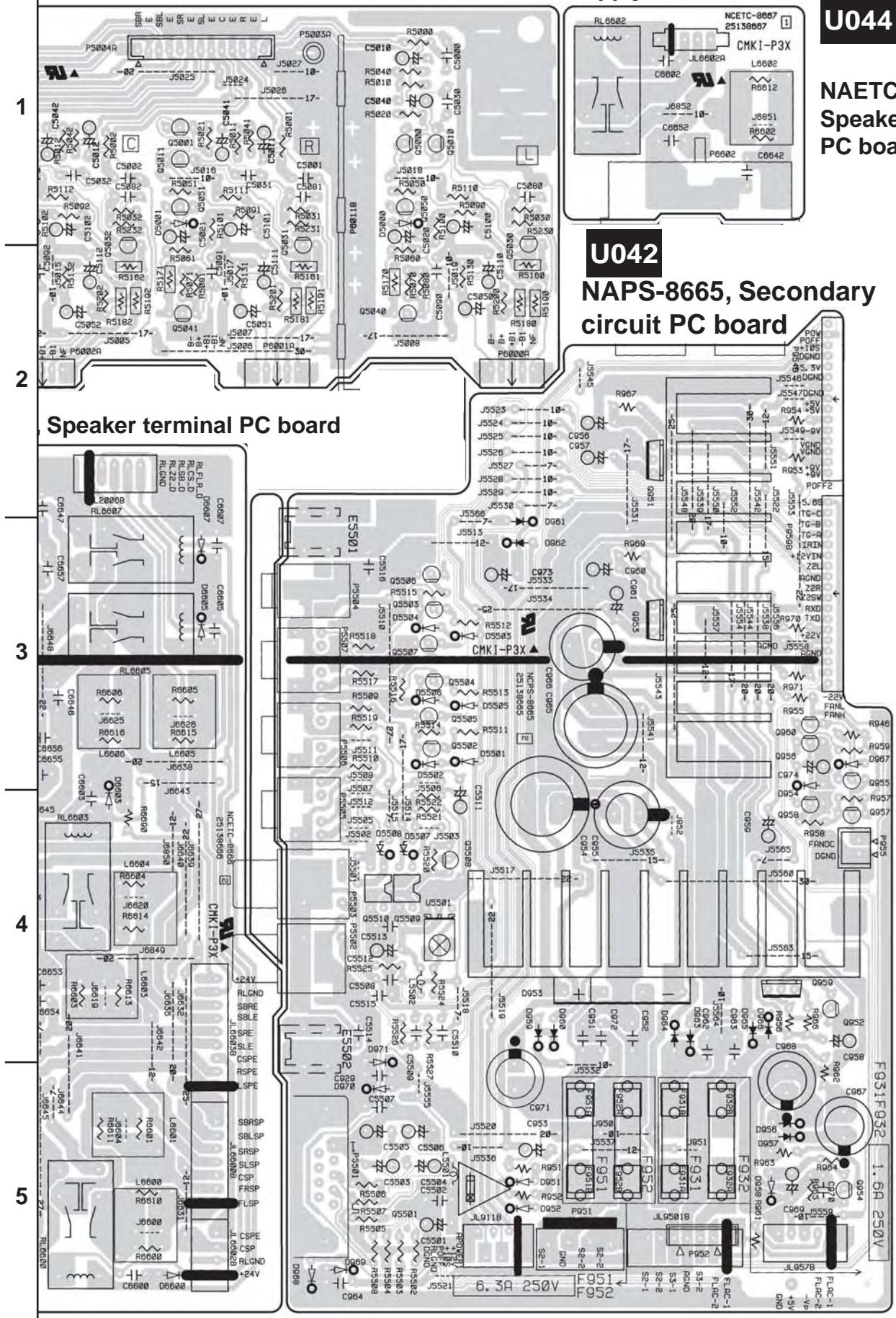
A

B

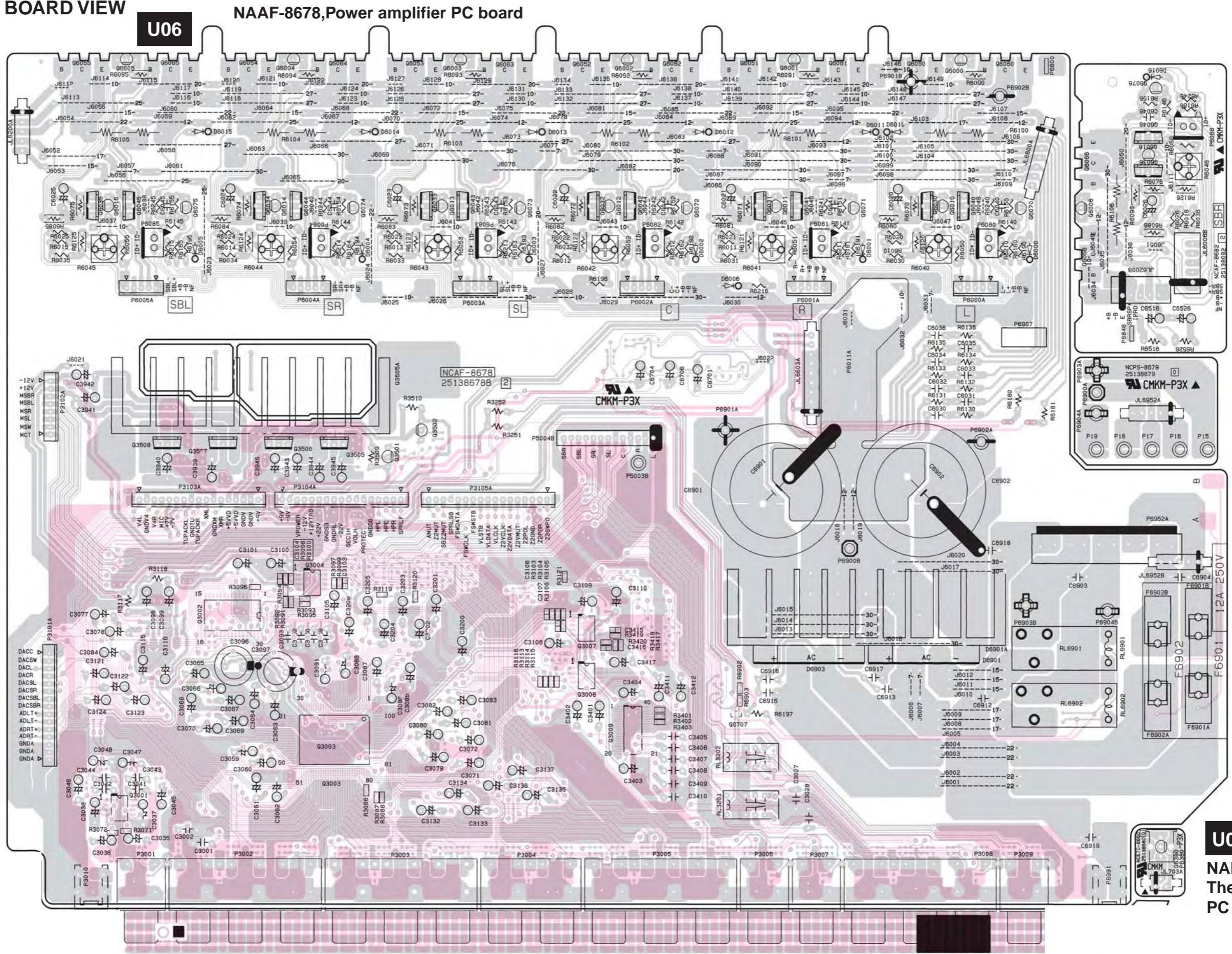
C

D

PRINTED CIRCUIT BOARD VIEW 4 Power supply and Driver sections



A B C D E F G H
PRINTED CIRCUIT BOARD VIEW
POWER AMPLIFIER
SECTION



A

G

H

PRINTED CIRCUIT BOARD VIEW

AMPLIFIER SECTION

PC BOARD

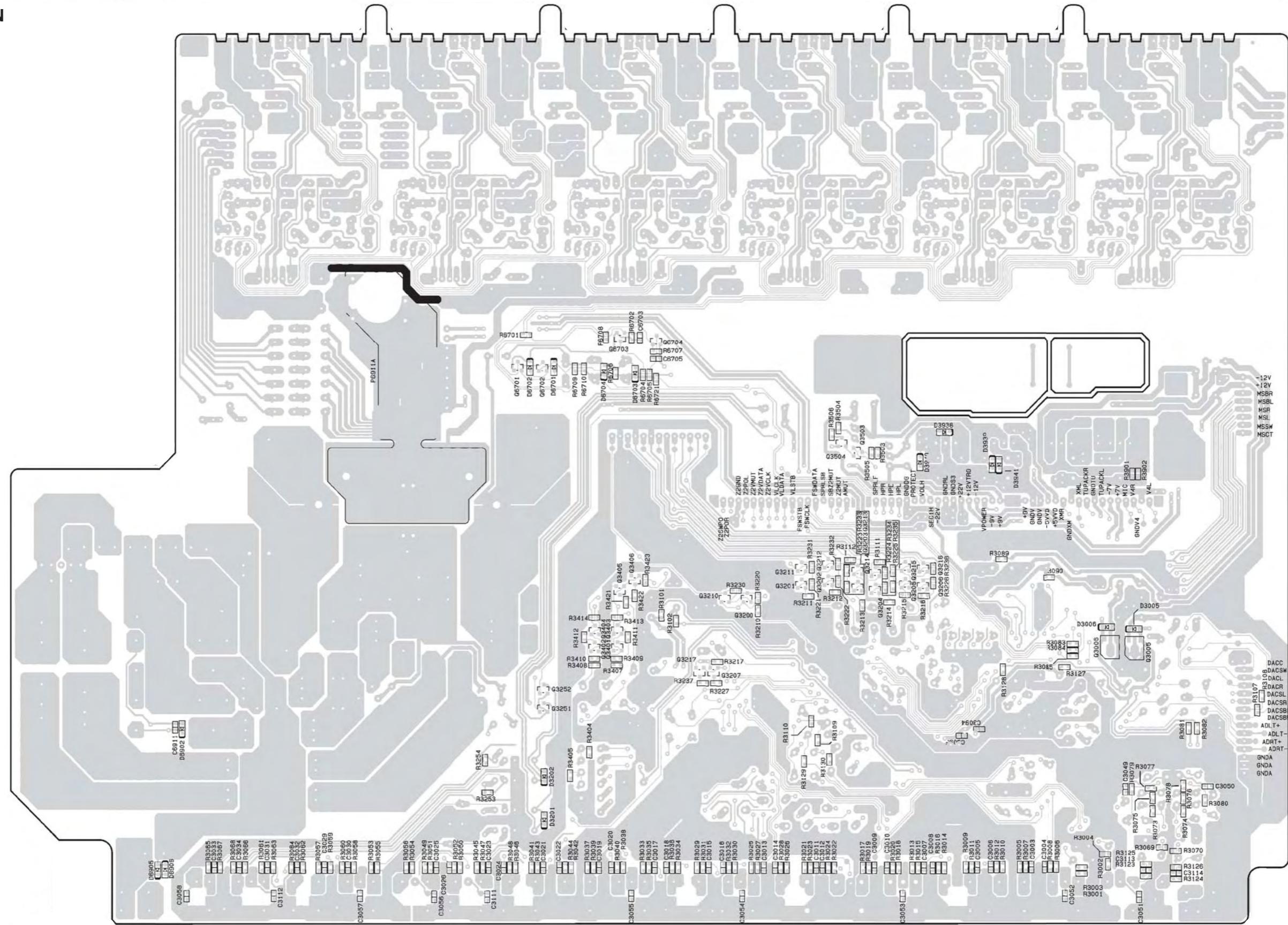
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NAAF-8678,Power amplifier PC board

A

E

C

D

1

G

H

PRINTED CIRCUIT BOARD VIEW 1

Digital section

1

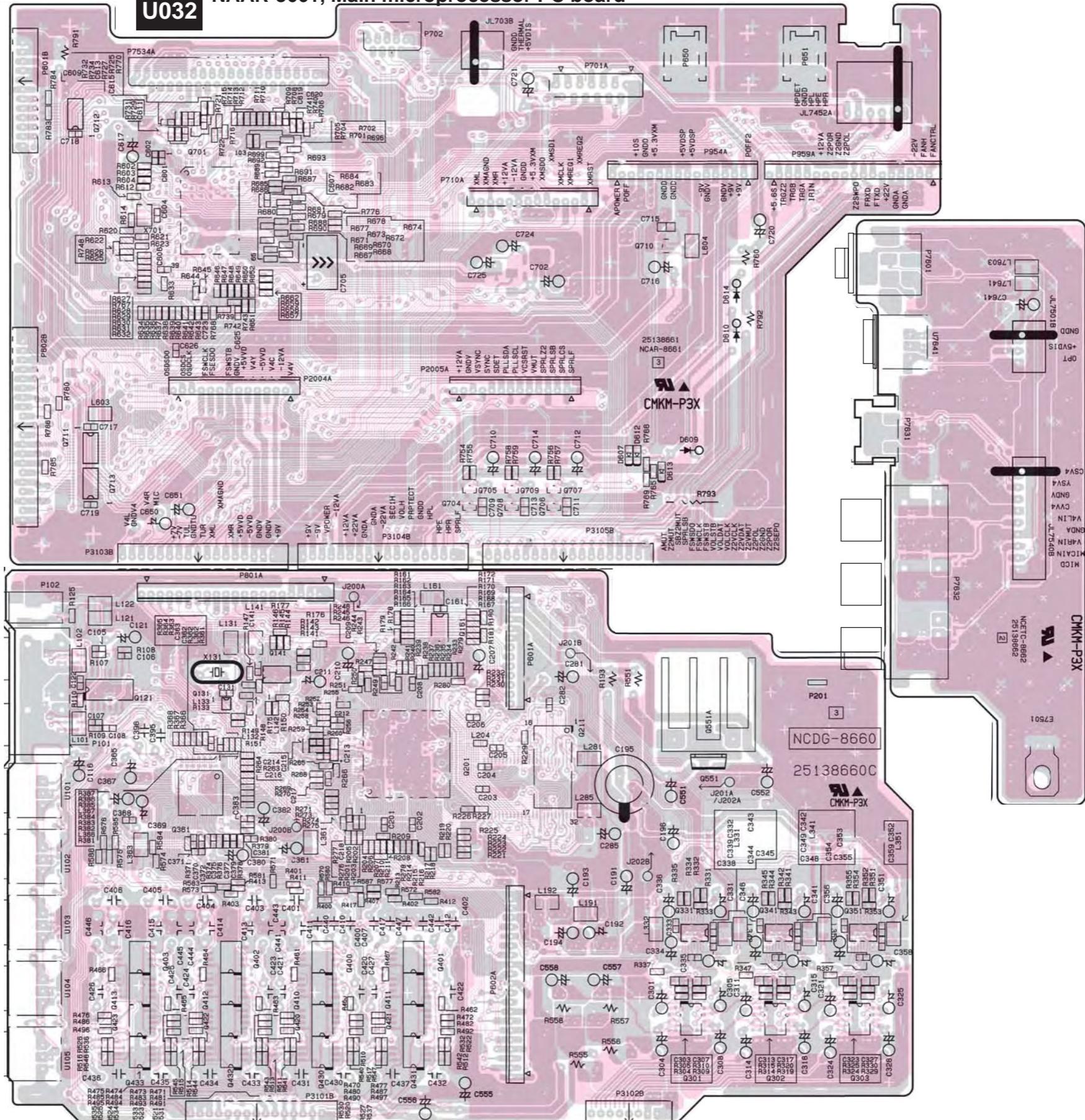
2

3

4

5

NAAR-8661, Main microprocessor PC board



UO

NADG-8660, DSP circuit PC board

U033

NAETC-8662, Front video PC board

A

1

F

G

PRINTED CIRCUIT BOARD VIEW 1-2

Digital section

NAETC-8662, Front video PC board

U033

U0

NADG-8660, DSP circuit PC board

A

B

C

D

E

F

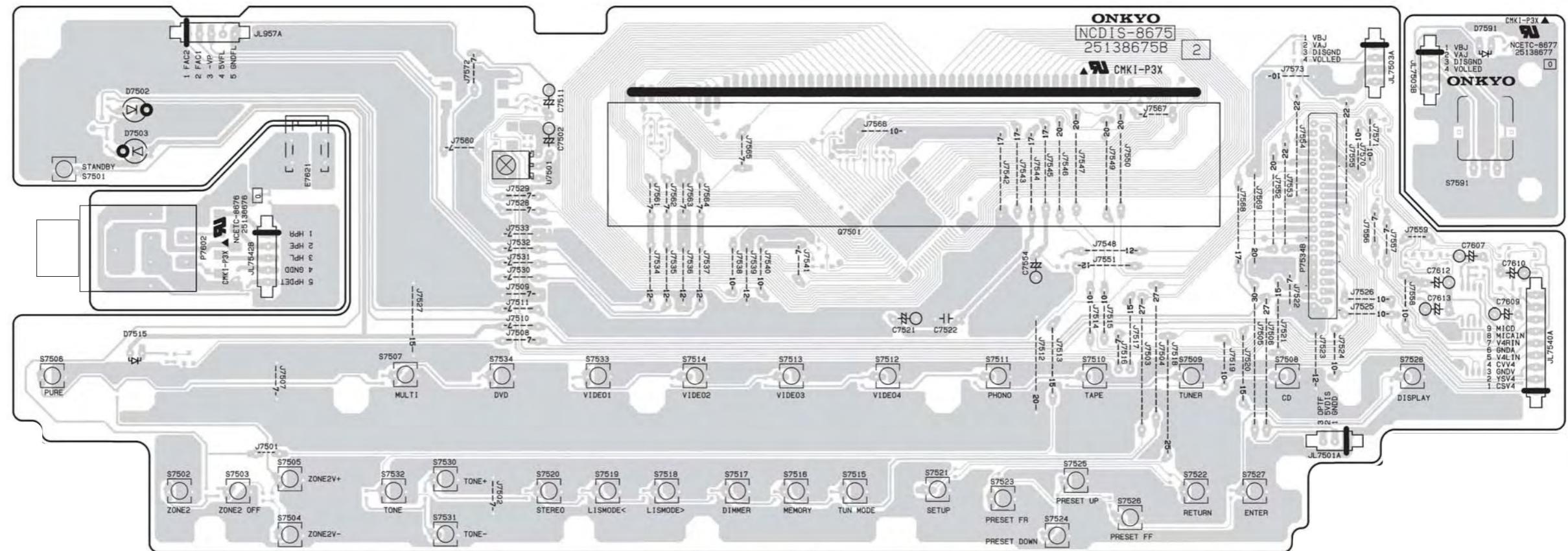
G

H

PRINTED CIRCUIT BOARD VIEW
DISPLAY CIRCUIT PC BOARD

1

NAETC-8678,
Headphone terminal
PC board

U052

2

U053

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A

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H

PRINTED CIRCUIT BOARD VIEW

DISPLAY CIRCUIT PC BOARD

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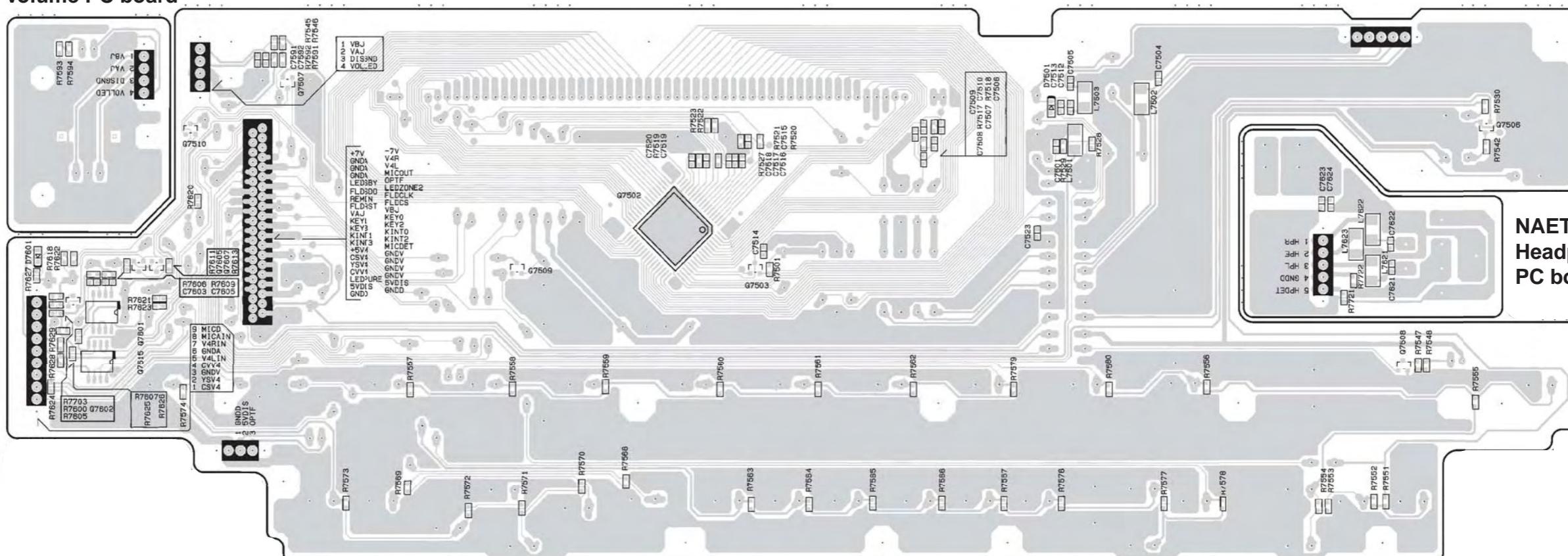
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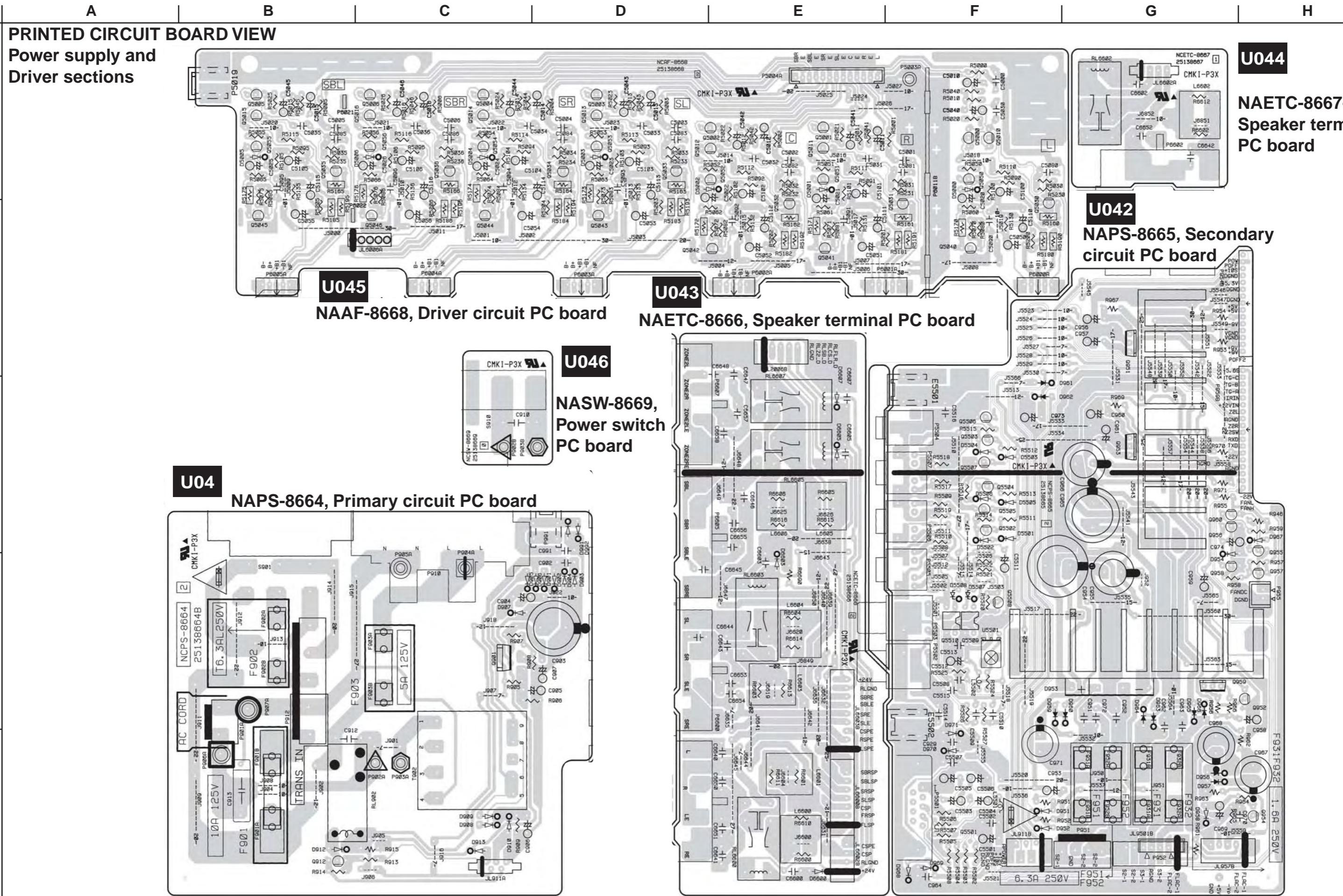
U053

**NAETC-8677,
Volume PC board**

**U052**

**NAETC-8676,
Headphone terminal
PC board**

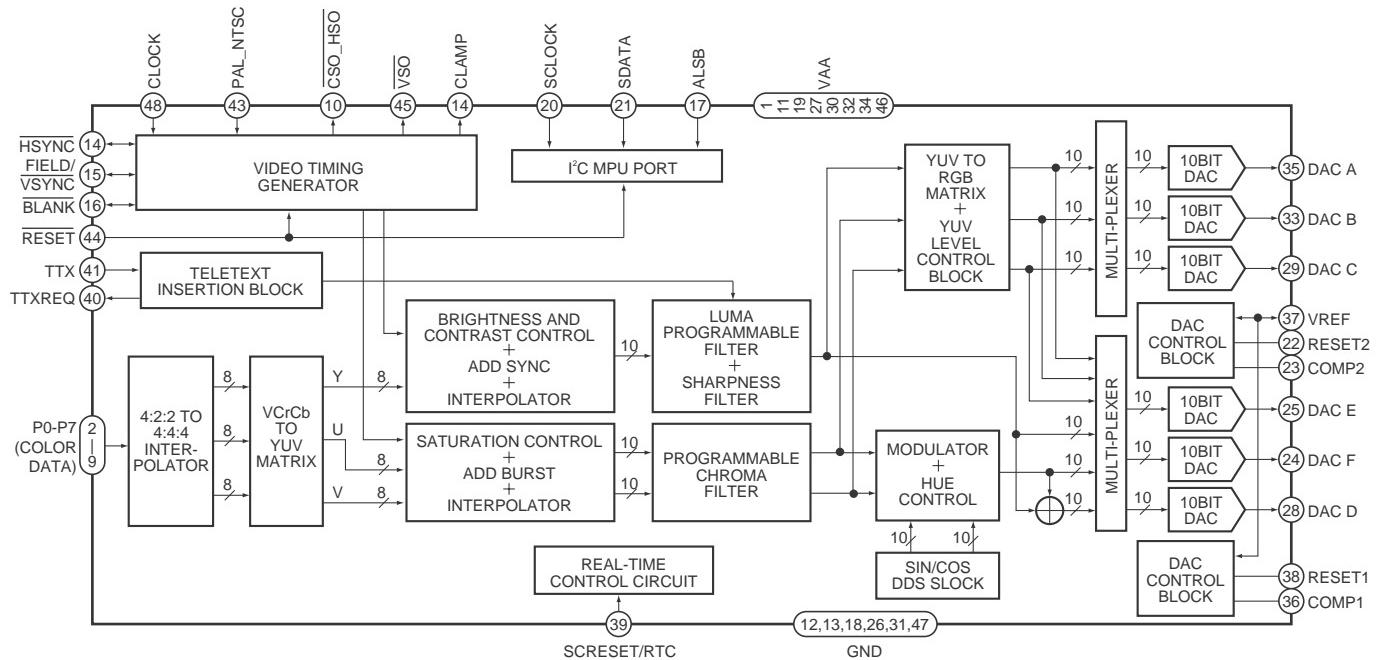
U05 NADIS-8675,Display circuit PC board



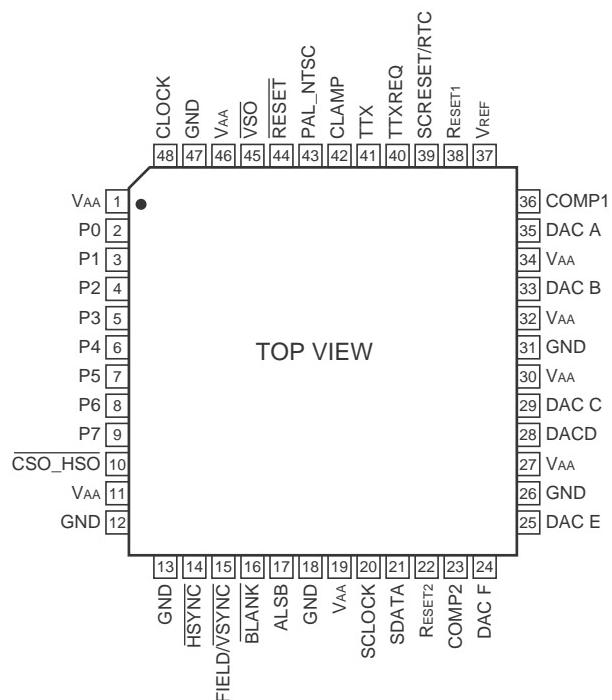
IC BLOCK DIAGRAMS AND DESCRIPTIONS

ADV7172 (Digital PAL/NTSC Video Encoder with Six DACs (10-Bits))

BLOCK DIAGRAM



PIN LAYOUT



IC BLOCK DIAGRAMS AND DESCRIPTIONS

ADV7172 (Digital PAL/NTSC Video Encoder with Six DACs (10-Bits))

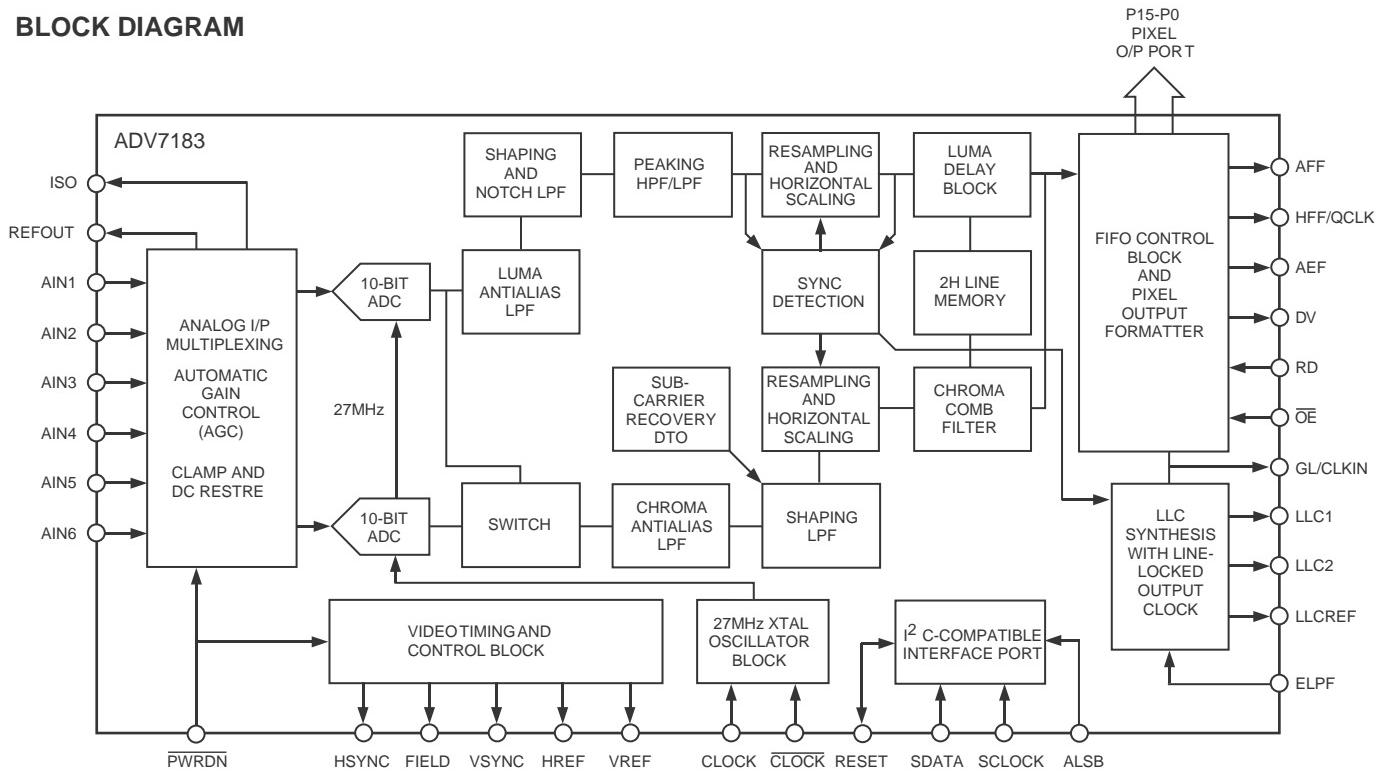
TERMINAL DESCRIPTION

No.	Name	I/O	Description
9-2	P7-P0	I	8-Bit 4:2:2 Multiplexed YCrCb Pixel Port (P7-P0) P0 represents the LSB.
48	CLOCK	I	TTL Clock Input. Requires a stable 27 MHz reference clock for standard operation. Alternatively, a 24.5454 MHz (NTSC) or 29.5 MHz (PAL) can be used for square pixel operation.
14	H _{SYNC}	I/O	H _{SYNC} (Modes 1 and 2) Control Signal. This pin may be configured to output (Master Mode) or as an input and accept (Slave Mode) Sync signals.
15	FIELD/V _{SYNC}	I/O	Dual Function FIELD (Mode 1) and V _{SYNC} (Mode 2) Control Signal. This pin may be configured to output (Master Mode) or as an input (Slave Mode) and accept these control signals.
16	BLANK	I/O	Video Blanking Control Signal. The pixel inputs are ignored when this is Logic Level "0". This signal is optional.
39	SCRESET/RTC	I	This pin can be configured as an input by setting MR42 and MR41 of Mode Register 4. It can be configured as a subcarrier reset pin, in which case a low-to-high transition on this pin will reset the subcarrier phase to Field 0. Alternatively it may be configured as a Real-Time Control (RTC) Input.
37	V _{REF}	I/O	Voltage Reference Input for DACs or Voltage Reference Output (1.235 V).
38	RSET1	I	A 150 ohms resistor connected from this pin to GND is used to control full-scale amplitudes the Video Signals from DACs A, B, and C (the "large" DACs).
22	RSET2	I	A 600 ohms resistor connected from this pin to GND is used to control full-scale amplitudes the Video Signals from DACs D, E, and F (the "small" DACs).
36	COMP1	O	Compensation Pin for DACs A, B, and C. Connect a 0.1 uF Capacitor from COMP to VAA. For Optimum Dynamic Performance in Low Power Mode, the value of the COMP1 capacitor can be lowered to as low as 2.2 nF.
23	COMP2	O	Compensation Pin for DACs D, E, and F. Connect a 0.1 uF Capacitor from COMP to VAA.
35	DAC A	O	GREEN/Composite/Y Analog Output. This DAC is capable of providing 34.66 mA output.
33	DAC B	O	BLUE/S-Video Y/U Analog Output. This DAC is capable of providing 34.66 mA output.
29	DAC C	O	RED/S-Video C/V Analog Output. This DAC is capable of providing 34.66 mA output.
28	DAC D	O	GREEN/Composite/Y Analog Output. This DAC is capable of providing 8.66 mA output.
25	DAC E	O	BLUE/S-Video Y/U Analog Output. This DAC is capable of providing 8.66 mA output.
24	DAC F	O	RED/S-Video C/V Analog Output. This DAC is capable of providing 8.66 mA output.
20	SCLOCK	I	MPU Port Serial Interface Clock Input.
21	SDATA	I/O	MPU Port Serial Data Input/Output.
42	CLAMP	O	TTL Output Signal to external circuitry to enable clamping of all video signals.
43	PAL_NTSC	I	Input signal to select PAL or NTSC mode of operation, pin set to Logic "1" selects PAL.
45	V _{SO}	O	V _{SO} TTL Output Sync Signal.
10	CSO_HSO	O	Dual Function CSO or HSO TTL Output Sync Signal.
17	ALSB	I	TTL Address Input. This signal sets up the LSB of the MPU address.
44	RESET	I	The input resets the on-chip timing generator and sets the ADV7172/ADV7173 into default mode. This is NTSC operation, Timing Slave Mode 0, DACs A, B, and C powered OFF, DACs D, E, and F powered ON, Composite and S-Video out.
41	TTX	I	Teletext Data Input Pin.
40	TTXREQ	O	Teletext Data Request output signal used to control teletext data transfer.
1, 11, 19, 27, 30, 32, 34, 46	VAA	P	Power Supply (3 V to 5 V).
12, 13, 18, 26, 31, 47	GND	G	Ground Pin.

IC BLOCK DIAGRAMS AND DESCRIPTIONS

ADV7183 (Advanced Video Decoder with 10-Bit ADC and Component Support)

BLOCK DIAGRAM



TERMINAL DESCRIPTION

Pin	Mnemonic	Input/Output	Function
1	VS/VACTIVE	O	VS or Vertical Sync. A dual-function pin, (OM_SEL[1:0] = 0, 0) is an output signal that indicates a vertical sync with respect to the YUV pixel data. The active period of this signal is six lines of video long. The polarity of the VS signal is controlled by the PVS bit. VACTIVE (OM_SEL[1:0] = 1, 0 or 0, 1) is an output signal that is active during the active/viewable period of a video field. The polarity of VACTIVE is controlled by PVS bit.
2	HS/HACTIVE	O	HS or Horizontal Sync. A dual-function pin, (OM_SEL[1:0] = 0, 0) is a programmable horizontal sync output signal. The rising and falling edges can be controlled by HSB[9:0] and HSE[9:0] in steps of 2 LLC1. The polarity of the HS signal is controlled by the PHS bit. HACTIVE (OM_SEL[1:0]= 1, 0 or 0, 1) is an output signal that is active during the active/viewable period of a video line. The active portion of a video line is programmable on the ADV7183. The polarity of HACTIVE is controlled by PHS bit.
3, 14	DVSSIO	G	Digital I/O Ground
4, 15	DVDDIO	P	Digital I/O Supply Voltage (3.3 V)
5-8, 19-24, 32, 33, 73-76	P15-P0	O	Video Pixel Output Port. 8-bit multiplexed YCrCb pixel port (P15-P8), 16-bit YCrCb pixel port (P15-P8 = Y and P7-P0 = Cb,Cr).
9, 31, 71	DVSS1-3	G	Ground for Digital Supply
10, 30, 72	DVDD1-3	P	Digital Supply Voltage (3.3 V)
11	AFF	O	Almost Full Flag. A FIFO control signal indicating when the FIFO has reached the almost full margin set by the user (use FFM[4:0]). The polarity of this signal is controlled by the PFF bit.
12	HFF/QCLK/GL	I/O	Half Full Flag. A multifunction pin, (OM_SEL[1:0] = 1, 0) is a FIFO control signal that indicates when the FIFO is half full. The QCLK (OM_SEL[1:0] = 0, 1) pin function is a qualified pixel output clock when using FIFO SCAPI mode. The GL (OM_SEL[1:0] = 0, 0) function (Genlock output) is a signal that contains a serial stream of data that contains information for locking the subcarrier frequency. The polarity of HFF signal is controlled by PFF bit.
13	AEF	O	Almost Empty Flag. A FIFO control signal, it indicates when the FIFO has reached the almost empty margin set by the user (use FFM[4:0]). The polarity of this signal is controlled by PFF bit.
16	CLKIN	I	Asynchronous FIFO Clock. This asynchronous clock is used to output data onto the P15-P0 bus and other control signals.
17, 18, 34, 35	GPO[3:0]	O	General-Purpose Outputs controlled via I ² C

IC BLOCK DIAGRAMS AND DESCRIPTIONS

ADV7183 (Advanced Video Decoder with 10-Bit ADC and Component Support)

TERMINAL DESCRIPTION

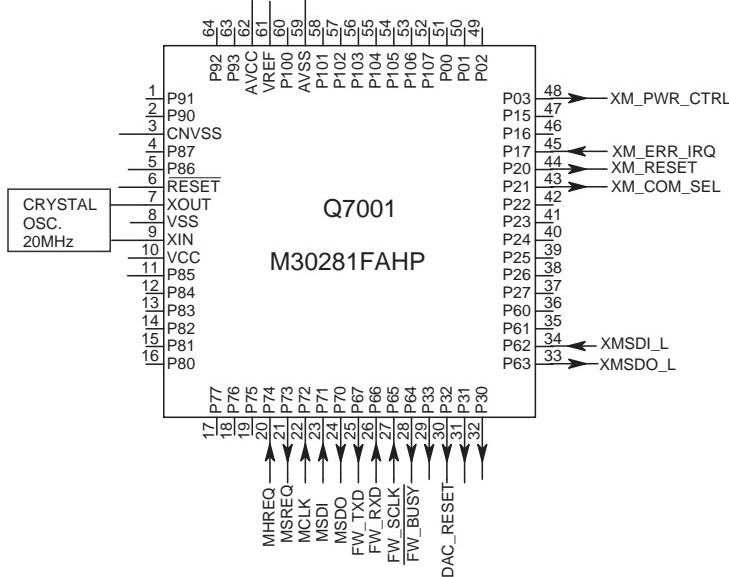
Pin	Mnemonic	Input/Output	Function
25	LLCREF	O	Clock Reference Output. This is a clock qualifier distributed by the internal CGC for a data rate of LLC2. The polarity of LLCREF is controlled by the PLLCREF bit.
26	LLC2	O	Line-Locked Clock System Output Clock/2 (13.5 MHz)
27	LLC1/PCLK	O	Line-Locked Clock System Output Clock. A dual-function pin (27 MHz ± 5%) or a FIFO output clock ranging from 20 MHz to 35 MHz.
28	XTAL1	O	Second terminal for crystal oscillator; not connected if external clock source is used.
29	XTAL	I	Input terminal for 27MHz crystal oscillator or connection for external oscillator with CMOS-compatible square wave clock signal
36	PWRDN	I	Power-Down Enable. A logical low will place part in a power-down status.
37	ELPF	I	This pin is used for the External Loop Filter that is required for the LLC PLL.
38	PVDD	P	
39	PVSS	G	
40, 47, 53, 56, 63	AVSS	G	Ground for Analog Supply
41, 43, 45, 57, 59, 61	AVSS1-6	G	Analog Input Channels. Ground if single-ended mode is selected. These pins should be connected directly to REFOUT when differential mode is selected.
42, 44, 46, 58, 60, 62	AIN1-6	I	Video Analog Input Channels
48, 49	CAPY1-2	I	ADC Capacitor Network
50	AVDD	P	Analog Supply Voltage (5 V)
51	REFOUT	O	Internal Voltage Reference Output
52	CML	O	Common-Mode Level for ADC
54, 55	CAPC1-2	I	ADC Capacitor Network
64	RESET	I/O	System Reset Input. Active Low.
65	ISO	I	Input Switch Over. A low to high transition on this input indicates to the decoder core that the input video source has been changed externally and configures the decoder to reacquire the new timing information of the new source. This is useful in applications where external video muxes are used. This input gives the advantage of faster locking to the external muxed video sources. A low to high transition triggers this input.
66	ALSB	I	TTL Address Input. Selects the MPU address: MPU address = 88h ALSB = 0, disables I ² C filter MPU address = 8Ah ALSB = 1, enables I ² C filter
67	SDATA	I/O	MPU Port Serial Data Input/Output
68	SCLK	I	MPU Port Serial Interface Clock Input
69	VREF/VRESET	O	VREF or Vertical Reference Output Signal. Indicates start of next field. VRESET or Vertical Reset Output is a signal that indicates the beginning of a new field. In SCPI/CAPI mode this signal is one clock wide and active low relative to CLKIN. It immediately follows the HRESET pixel, and indicates that the next active pixel is the first active pixel of the next field.
70	HREF/HRESET	O	HREF or Horizontal Reference Output Signal. A dual-function pin (enabled when Line-Locked Interface is selected, OM_SEL[1:0] = 0,0), this signal is used to indicate data on the YUV output. The positive slope indicates the beginning of a new active line; HREF is always 720 Y samples long. HRESET or Horizontal Reset Output (enabled when SCPI or CAPI is selected, OM_SEL[1:0] = 0, 1 or 1, 0) is a signal that indicates the beginning of a new line of video. In SCPI/CAPI this signal is one clock cycle wide and is output relative to CLKIN. It immediately follows the last active pixel of a line. The polarity is controlled via PHVR.
77	RD	I	Asynchronous FIFO Read Enable Signal. A logical high on this pin enables a read from the output of the FIFO.
78	DV	O	DV or Data Valid Output Signal. In SCPI/CAPI mode, DV performs to functions, depending on whether SCPI or CAPI is selected. It toggles high when the FIFO has reached the AFF margin set by the user, and remains high until the FIFO is empty. The alternative mode is where it can be used to control FIFO reads for bursting information out of the FIFO. In API mode DV indicates valid data in the FIFO, which includes both pixel information and control codes. The polarity of this pin is controlled via PDV.
79	OE	I	Output Enable Controls Pixel Port Outputs. A logic high will three-state P19-P0.
80	FIELD	O	ODD/EVEN Field Output Signal. An active state indicates that an even field is being digitized. The polarity of this signal is controlled by the PF bit.

IC BLOCK DIAGRAMS AND DESCRIPTIONS(XM radio only)

TPS2012AD/MAX1930ESA(POWER-DISTRIBUTION)

1	GND	OUT	8	1	EN	Enable input. Logic low turns power switch on.
2	IN	OUT	7	2,3	IN	Input voltage
3	IN	OUT	6	4	GND	Ground
4	EN	OUT	5~8	5~8	OUT	Power switch output

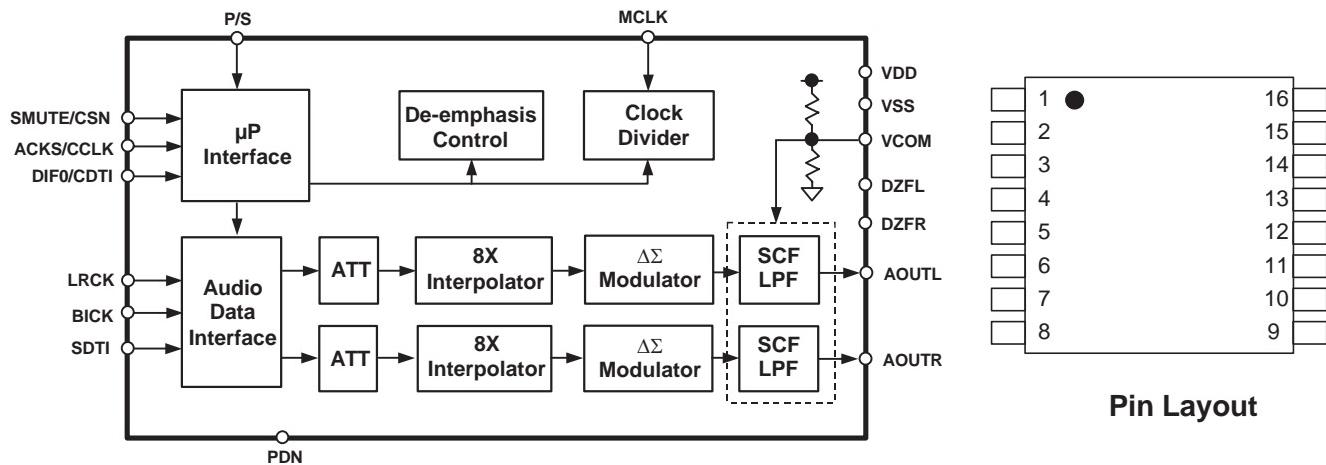
M30281FAHP(XM MICROPROCESSOR)



No.	PIN NAME	I/O	DESCRIPTION
3	Cnvss		Connect to Vcc.
5	FW_CE	I	Port for writing flash.
6	-RESET	I	Reset input
7	Xout		Connect to the crystal oscillator.
8	Vss		Ground for power supply
9	Xin		Connect to the crystal oscillator.
10	Vcc		Power supply Vcc
20	MHREQ	I	Request signal to transfer the serial data from main microprocessor. (System)
21	MSREQ	O	Request signal to transfer the serial data to main microprocessor. (Local)
22	MCLK	I	Serial clock input from main microprocessor.
23	MSDI	I	Serial data input from main microprocessor.
24	MSDO	O	Serial data output to main microprocessor.
25	FW_TXD	O	Port for writing flash.
26	FW_RXD	I	Port for writing flash.
27	FW_SCLK	I	Port for writing flash.
28	FW_BUSY	O	Port for writing flash.
29	DACSDO	O	Serial data output for DAC.
30	DACRESET	O	Reset output for DAC.
31	DACCS	O	Serial communication chip select for DAC.
32	DACCLK	O	Serial communication clock for DAC.
33	XMSDO	O	Serial data output for XM IC.
34	XM_SDI	I	Serial data input for XM IC.
43	XM_COM_SEL	O	Command select output for XM IC.
44	XM_RESET	O	Reset output for XM IC.
45	XM_ERR_IRQ	I	Error interrupt request line for XM IC.
46	FW_P16	I	Port for writing flash.
48	XM_PWR_CTRL	O	Power supply control for XM IC.
59	AVSS		Ground for A/D converter.
61	Vref		Reference power supply for A/D converter.
62	AVcc		Power supply for A/D converter.

IC BLOCK DIAGRAMS AND DESCRIPTIONS

AK4384(106dB 192kHz 24-Bit 2ch ΔΣ DAC)

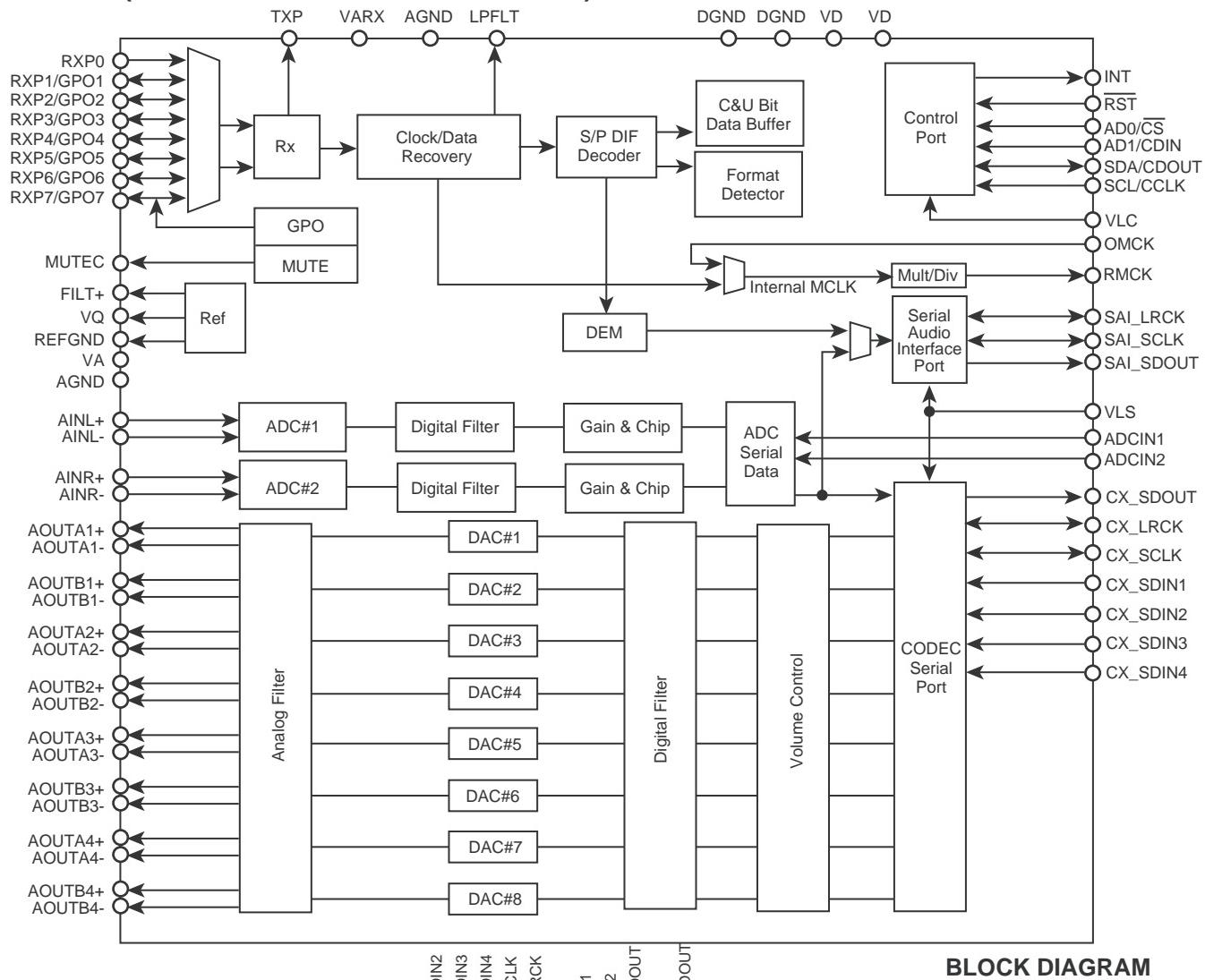


No.	Pin Name	I/O	Function
1	MCLK	I	Master Clock Input Pin An external TTL clock should be input on this pin.
2	BICK	I	Audio Serial Data Clock Pin
3	SDTI	I	Audio Serial Data Input Pin
4	LRCK	I	L/R Clock Pin
5	PDN	I	Power-Down Mode Pin When at “L”, the AK4384 is in the power-down mode and is held in reset. The AK4384 should always be reset upon power-up.
6	SMUTE	I	Soft Mute Pin in parallel mode “H”: Enable, “L”: Disable
	CSN	I	Chip Select Pin in serial mode
7	ACKS	I	Auto Setting Mode Pin in parallel mode “L”: Manual Setting Mode, “H”: Auto Setting Mode
	CCLK	I	Control Data Clock Pin in serial mode
8	DIF0	I	Audio Data Interface Format Pin in parallel mode
	CDTI	I	Control Data Input Pin in serial mode
9	P/S	I	Parallel/Serial Select Pin (Internal pull-up pin) “L”: Serial control mode, “H”: Parallel control mode
10	AOUTR	O	Rch Analog Output Pin
11	AOUTL	O	Lch Analog Output Pin
12	VCOM	O	Common Voltage Pin, VDD/2 Normally connected to VSS with a 0.1μF ceramic capacitor in parallel with a 10μF electrolytic cap.
13	VSS	-	Ground Pin
14	VDD	-	Power Supply Pin
15	DZFR	O	Rch Data Zero Input Detect Pin
16	DZFL	O	Lch Data Zero Input Detect Pin

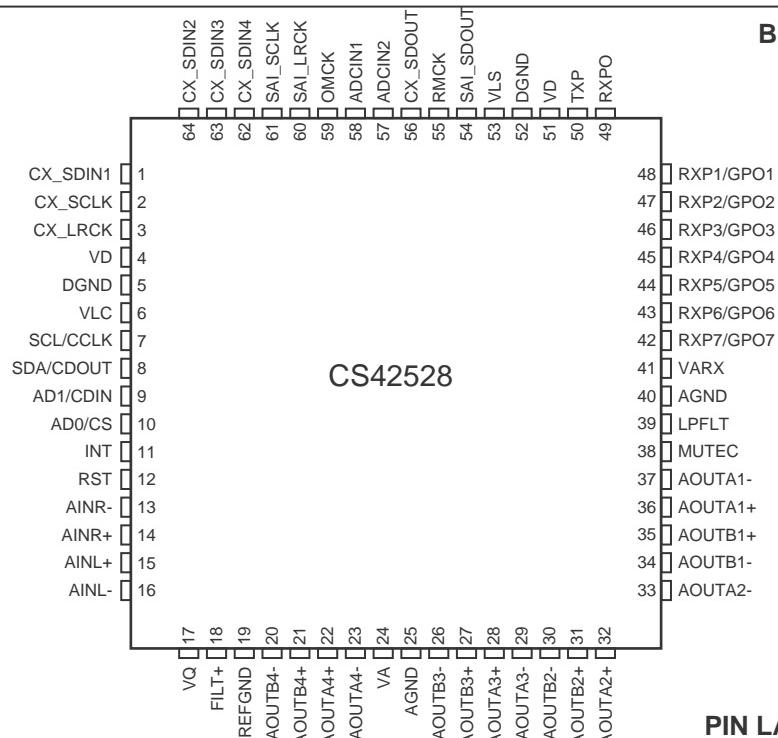
Note: All input pins except pull-up pin should not be left floating.

IC BLOCK DIAGRAMS AND DESCRIPTIONS

CS42528 (8-Ch Codec with S/PDIF Receiver)



BLOCK DIAGRAM



CS42528

PIN LAYOUT

IC BLOCK DIAGRAMS AND DESCRIPTIONS

CS42528 (8-Ch Codec with S/PDIF Receiver)

TERMINAL DESCRIPTION

Pin Name	#	Pin Description
CX_SDIN1	1	Codec Serial Audio Data Input (Input) - Input for two's complement serial audio data.
CX_SDIN2	64	
CX_SDIN3	63	
CX_SDIN4	62	
CX_SCLK	2	CODEC Serial Clock (Input/Output) - Serial clock for the CODEC serial audio interface
CX_LRCK	3	CODEC Left Right Clock (Input/ Output) - Determines which channel, Left or Right, is currently active on the CODEC serial audio data line.
VD	4	Digital Power (Input) - Positive power supply for the digital section.
	51	
DGND	5	Digital Ground (Input) - Ground reference. Connects to digital ground.
	52	
VLC	6	Control Port Power (Input) - Determines the required signal level for the control port.
SCL/CCLK	7	Serial Control Port Clock (Input) - Serial clock for the serial control port.
SDA/CDOUT	8	Serial Control Data (Input/Output) - SDA is a data I/O line in IC mode and requires an external pull-up resistor to the logic interface voltage. CDOUT is the output data line for the control port interface in SPI mode.
AD1/CDIN	9	Address Bit 1 (I^2C)/Serial Control Data (SPI) (Input) - AD1 a chip address pin in I^2C mode; CDIN is the input data line for control port interface in SPI mode.
AD0/CS	10	Address Bit 0 (I^2C)/Control Port Chip Select (SPI) (Input) - AD0 is a chip address pin in I^2C mode; CS is the chip select signal in SPI mode.
INT	11	Interrupt (Output) - The CS42528 will generate an interrupt condition as per the Interrupt Mask register.
RST	12	Reset (Input) - The device enters a low power mode and all internal registers are reset to their default settings when low.
AINR-	13	Differential right Channel Analog Input (Input) - Signals are presented differentially to the delta-sigma modulators via the AINR+/- pins.
AINR+	14	
AINL-	15	Differential right Channel Analog Input (Input) - Signals are presented differentially to the delta-sigma modulators via the AINL+/- pins.
AINL+	16	
VQ	17	Quiescent Voltage (Output) - Filter connection for internal quiescent reference voltage.
FILT+	18	Positive Voltage Reference (Output) - Positive reference voltage for the internal sampling circuits.
REFGND	19	Reference Ground (Input) - Ground reference for the internal sampling circuits.
AOUTA1 +, -	36, 37	Differential Analog Output (Output) - The full-scale differential analog output level is specified in the Analog Characteristics specification table.
AOUTB1 +, -	35, 34	
AOUTA2 +, -	32, 33	
AOUTB2 +, -	31, 30	
AOUTA3 +, -	28, 29	
AOUTB3 +, -	27, 26	
AOUTA4 +, -	22, 23	
AOUTB4 +, -	21, 20	
VA	24	Analog Power (Input) - Positive power supply for the analog section.
VARX	41	
AGND	25	Analog Ground (Input) - Ground reference. Connectes to analog ground.
	40	

IC BLOCK DIAGRAMS AND DESCRIPTIONS

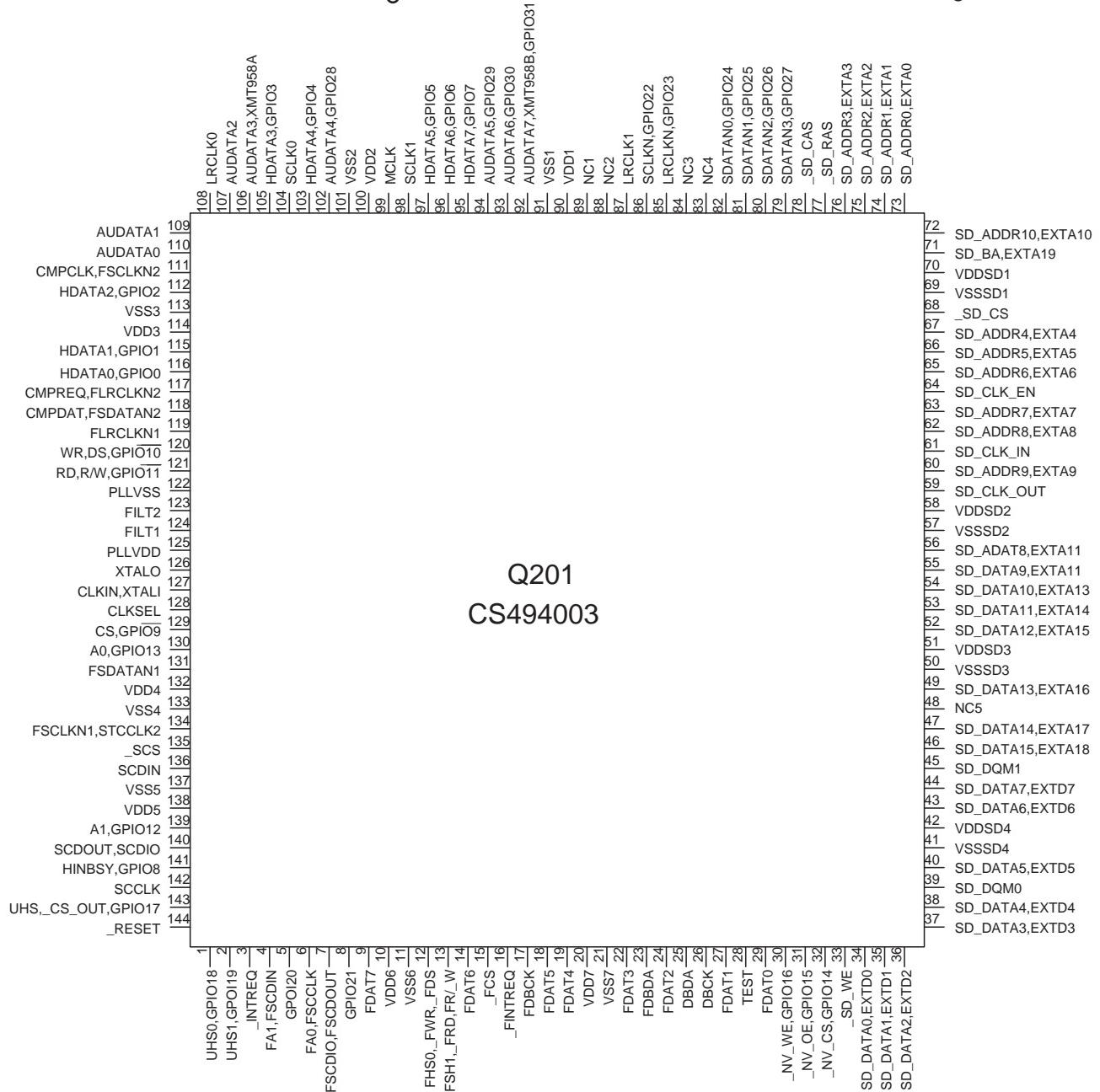
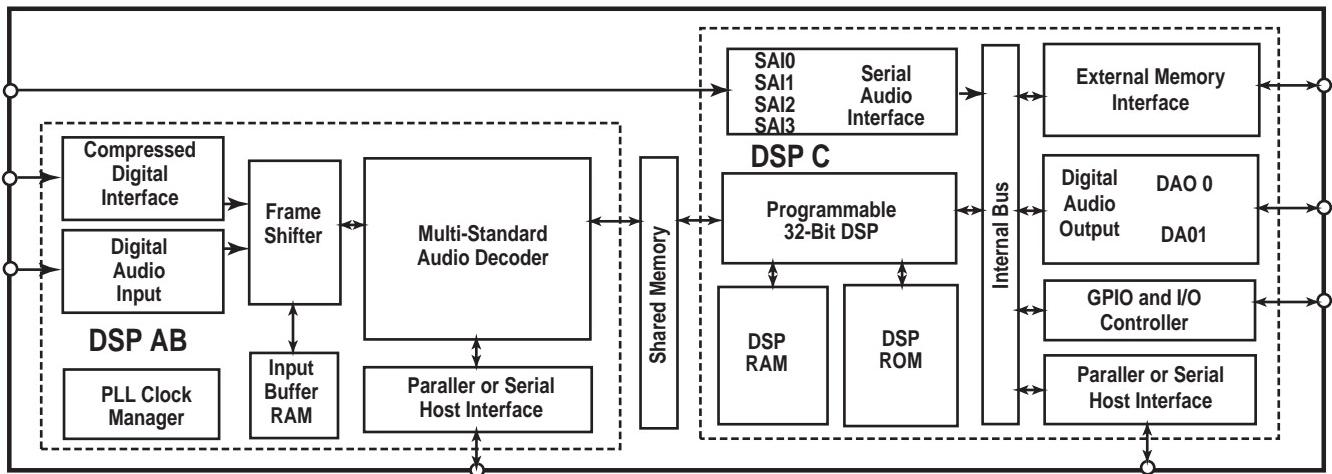
CS42528 (8-Ch Codec with S/PDIF Receiver)

TERMINAL DESCRIPTION

Pin Name	#	Pin Description
VA	24	Analog Power (Input) - Positive power supply for the analog section.
VARX	41	
AGND	25	Analog Ground (Input) - Ground reference. Connects to analog ground.
	40	
MUTEC	38	Mute Control (Output) - The Mute Control pin outputs high impedance following an initial power -on condition or whenever the PDN bit is set to a "1", forcing the codec into power -down mode. The signal will remain in a high impedance state as long as the part is in power-down mode. The Mute Control pin goes to the selected "active" state during reset, muting, or if the master clock to left/right clock frequency ratio is incorrect. This pin is intended to be used as a control for external mute circuits to prevent the clicks and pops that can occur in any single supply system. The use of external mute circuits are not mandatory but may be desired for designs requiring the absolute minimum in extraneous clicks and pops.
LPFLT	39	PLL Loop Filer (Output) - An RC network should be connected between this pin and ground.
RXP7/GPO7	42	S/PDIF Receiver Input/ General Purpose Output (Input/ Output) - Receiver inputs for S/PDIF encoded data. The CS42528 has an internal 8:2 multiplexer to select the active receiver port, according to the Receiver Mode Control 2 register. These pins can also be configured as general purpose output pins, ADC Overflow indicators or Mute Control outputs according to the RXP/General Purpose Pin Control registers.
RXP6/GPO6	43	
RXP5/GPO5	44	
RXP4/GPO4	45	
RXP3/GPO3	46	
RXP2/GPO2	47	
RXP1/GPO1	48	
RXP0	49	S/PDIF Receiver Input (Input) - Dedicated receiver input for S/PDIF encoded data.
TXP	50	S/PDIF Transmitter Output (Output) - S/PDIF encoded data output, mapped directly from one of the receiver inputs as indicated by the Receiver Mode Control 2 register.
VLP	53	Serial Port Interface Power (Input) - Determines the required signal level for the serial port interfaces.
SAI_SDOUT	54	Serial Audio Interface Serial Data Output (Output) - Output for two's complement serial audio PCM data from the S/PDIF incoming stream. This pin can also be configured to transmit the output of the internal and external ADCs.
RMCK	55	Recovered Master Clock (Output) - Recovered master clock output from the External Clock Reference
CX_SDOUT	56	CODEC Serial Data Output (Output) - Output for two's complement serial audio data the internal and external ADCs.
ADCIN1	58	External ADC Serial Input (Input) - The CS42528 provides for up two external stereo analog to digital converter inputs to provide a maximum of six channels on serial data output line when the CS42528 is placed in One Line mode.
ADCIN2	57	
OMCK	59	External Reference Clock (Input) - External clock reference that must be within the ranges specified in currently active on the serial audio data line.
SAI_LRCK	60	Serial Audio Interface Left/Right Clock (Input/Output) - Determines which channel, Left or Right, is currently active on the serial audio data line.
SAI_SCLK	61	Serial Audio Interface Serial Clock (Input/Output) - Serial clock for the Serial Audio Interface

IC BLOCK DIAGRAMS AND DESCRIPTIONS

CS494003(Audio Decoder DSP)



IC BLOCK DIAGRAMS AND DESCRIPTIONS

CS494003(Audio Decoder DSP)

PIN NO.	TERMINAL NAME/DESCRIPTION
1	UHS0, GPIO18 :DSPC control mode select Bit 0, General Purpose I/O
2	UHS1, GPIO19 :DSPC control mode select Bit 1, General Purpose I/O
3	INTREQ:Control Port Interrupt Request
4	FA1, FSCDIN:Host parallel address bit zero or SPI serial control data input
5	GPIO20:General Purpose I/O can be individually configured and controlled by DSPC.
6	FAO, FSCCLK :Host Parallel Address Bit Zero or Serial Control Port Clock
7	FHS2, FSCDIO, FSCDOUT:Mode select bit 2 or serial control port data input and output,parallel porttype select
8	GPIO21:General Purpose I/O can be individually configured and controlled by DSPC.
9	FDAT7:DSPAB Bidirectional Data Bus input
10	VDD6:2.5V supply voltage.
11	VSS6:2.5V ground.
12	FHS0, FWR, FDS:Mode select bit 0 or host write strobe or host data strobe
13	FHS1, FRD, FR/W:Mode select bit 1 or host parallel output enable or host parallel R/W
14	FDAT6:DSPAB Bidirectional Data Bus input
15	FCS:Host parallel chip select,Host serial SPI chip select
16	FINTREQ:Control port interrupt request
17	FDBCK:Reversed input:This pin is reversed and is pulled up with an external resistor.
18	FDAT5:DSPAB Bidirectional Data Bus input
19	FDAT4:DSPAB Bidirectional Data Bus input
20	VDD7:2.5V supply voltage.
21	VSS7:2.5V ground.
22	FDAT3:DSPAB Bidirectional Data Bus input
23	FDBDAResversed input:This pin is reversed and is pulled up with an external resistor.
24	FDAT2:DSPAB Bidirectional Data Bus input
25	DBDA:Debug data
26	DBCK:Debug clock
27	FDAT1:DSPAB Bidirectional Data Bus input
28	TEST:This pin is connected low for normal operation.
29	FDAT0:DSPAB Bidirectional Data Bus input
30	NV_WE, GPIO16:SRAM write enable output, General Purpose I/O
31	NV_OE, GPIO15:SRAM output Enable output, General Purpose I/O
32	NV_CS, GPIO14:SRAM Chip Select output, General Purpose I/O
33	SD_WE :SDRAM write enable output.
34	SD_DATA0, EXTD0:SDRAM data bus. SRAM external data bus input.
35	SD_DATA1, EXTD1:SDRAM data bus. SRAM external data bus input.
36	SD_DATA2, EXTD2:SDRAM data bus. SRAM external data bus input.
37	SD_DATA3, EXTD3:SDRAM data bus. SRAM external data bus input.
38	SD_DATA4, EXTD4:SDRAM data bus. SRAM external data bus input.
39	SD_DQM0:SDRAM data mask 0 output.
40	SD_DATA5, EXTD5:SDRAM data bus. SRAM external data bus input.
41	VSSSD4:3.3V SDRAM / SRAM / EPROM Interface ground.
42	VDDSD4:3.3V SDRAM / SRAM / EPROM Interface supply
43	SD_DATA6, EXTD6:SDRAM data bus. SRAM external data bus input.
44	SD_DATA7, EXTD7:SDRAM data bus. SRAM external data bus input.
45	SD_DQM1:SDRAM data mask 1 output.
46	SD_DATA15, EXTA18:SDRAM data bus output, SRAM external address bus output
47	SD_DATA14, EXTA17:SDRAM data bus output, SRAM external address bus output
48	NC5:No connect. Connect to ground.

IC BLOCK DIAGRAMS AND DESCRIPTIONS

CS494003(Audio Decoder DSP)

PIN NO.	TERMINAL NAME/DESCRIPTION
49	SD_DATA13, EXTA16:SDRAM data bus output, SRAM external address bus output
50	VSSSD3:3.3V SDRAM / SRAM / EPROM Interface ground.
51	VDDSD3:3.3V SDRAM / SRAM / EPROM Interface supply
52	SD_DATA12, EXTA15:SDRAM data bus output, SRAM external address bus output
53	SD_DATA11, EXTA14:SDRAM data bus output, SRAM external address bus output
54	SD_DATA10, EXTA13:SDRAM data bus output, SRAM external address bus output
55	SD_DATA9, EXTA12:SDRAM data bus output, SRAM external address bus output
56	SD_DATA8, EXTA11:SDRAM data bus output, SRAM external address bus output
57	VSSSD2:3.3V SDRAM / SRAM / EPROM Interface ground.
58	VDDSD2:3.3V SDRAM / SRAM / EPROM Interface supply
59	SD_CLK_OUT:SDRAM clock output.
60	SD_ADDR9, EXTA9:SDRAM address bus output. SRAM external address output.
61	SD_CLK_IN:SDRAM re-timing clock input.
62	SD_ADDR8, EXTA8:SDRAM address bus output. SRAM external address output.
63	SD_ADDR7, EXTA7:SDRAM address bus output. SRAM external address output.
64	SD_CLK_EN:SDRAM clock enable output.
65	SD_ADDR6, EXTA6:SDRAM address bus output. SRAM external address output.
66	SD_ADDR5, EXTA5:SDRAM address bus output. SRAM external address output.
67	SD_ADDR4, EXTA4:SDRAM address bus output. SRAM external address output.
68	SD_CS:SDRAM Chip select
69	VSSSD1:3.3V SDRAM / SRAM / EPROM Interface ground.
70	VDDSD1:3.3V SDRAM / SRAM / EPROM Interface supply
71	SD_BA, EXTA19:SDRAM bank address select, SRAM external address bus 19.
72	SD_ADDR10, EXTA10:SDRAM address bus output. SRAM external address output.
73	SD_ADDR0, EXTA0:SDRAM address bus output. SRAM external address output.
74	SD_ADDR1, EXTA1:SDRAM address bus output. SRAM external address output.
75	SD_ADDR2, EXTA2:SDRAM address bus output. SRAM external address output.
76	SD_ADDR3, EXTA3:SDRAM address bus output. SRAM external address output.
77	SD_RAS:SDRAM row address strobe output.
78	SD_CAS:DRAM column address strobe output.
79	SDATAN3, GPIO27:Digital-audio PCM data input. General purpose I/O
80	SDATAN2, GPIO26:Digital-audio PCM data input. General purpose I/O
81	SDATAN1, GPIO25:Digital-audio PCM data input. General purpose I/O
82	SDATAN0, GPIO24:Digital-audio PCM data input. General purpose I/O
83	NC4:No connect. Connect to ground.
84	NC3:No connect. Connect to ground.
85	LRCLKN, GPIO23:PCM Audio Input Sample Rate Clock, General Purpose I/O
86	SCLKN, GPIO22:PCM Audio Input Bit Clock, General Purpose I/O
87	LRCLK1:Audio Output Sample Rata Clock
88	NC2:No connect. Connect to ground.
89	NC1:No connect. Connect to ground.
90	VDD1:2.5V supply voltage.
91	VSS1:2.5V ground
92	AUDATA7, XMT958B, GPIO31:PCM digital-audio data output 7, S/PDIF Transmitter, General Purpose I/O
93	AUDATA6, GPIO30:PCM digital-audio data output 6, General Purpose I/O
94	AUDATA5, GPIO29:PCM digital-audio data output 5, General Purpose I/O
95	HDATA7, GPIO7:DSPC Bidirectional Data Bus, General Purpose I/O
96	HDATA6, GPIO6:DSPC Bidirectional Data Bus, General Purpose I/O

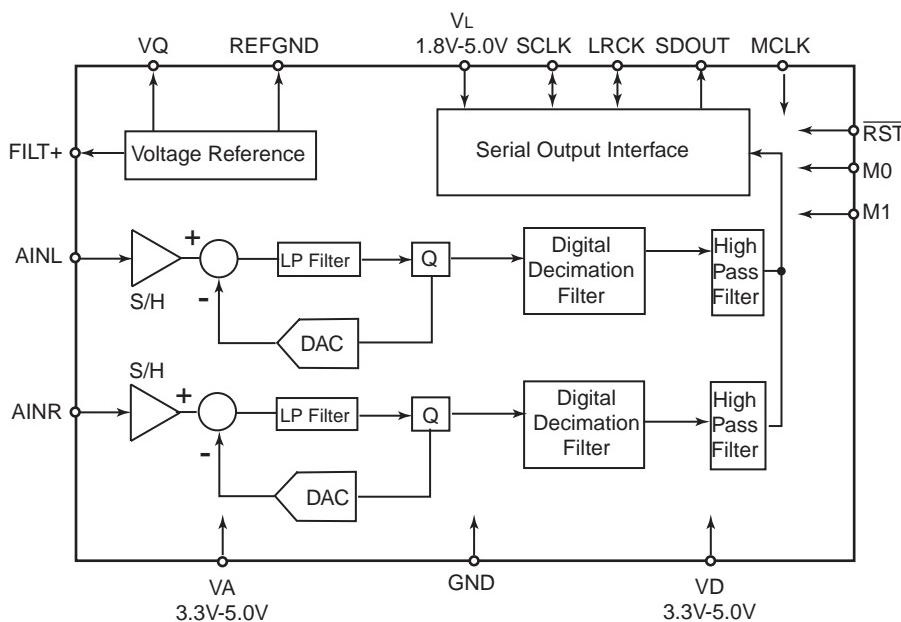
IC BLOCK DIAGRAMS AND DESCRIPTIONS

CS494003(Audio Decoder DSP)

PIN NO.	TERMINAL NAME/DESCRIPTION
97	HDATA5, GPIO5:DSPC Bidirectional Data Bus, General Purpose I/O
98	SCLK1 :Audio Output Bit Clock:Bidirectional digital-audio output bit clock for AUDATA4, to AUDATA7. As an output, SCLK1 can provide 32 fs, 64 fs, 128 fs, 256 fs, or 512 fs frequencies and is synchronous to MCLK.
99	MCLK:Bidirectional master audio clock. As an output, MCLK provides a low jitter oversampling clock.
100	VDD2:2.5V supply voltage.
101	VSS2:2.5V ground.
102	AUDATA4, GPIO28:Digital Audio Output 4, General Purpose I/O.PCM digital-audio data output.
103	HDATA4, GPIO4:DSPC Bidirectional Data Bus, General Purpose I/O
104	SCLK0 :Audio Output Bit Clock:Bidirectional digital-audio output bit clock for AUDATA0, to AUDATA3.
105	HDATA3, GPIO3:DSPC Bidirectional Data Bus, General Purpose I/O
106	AUDATA3, XMT958A:Digital Audio Output 3, S/PDIF Transmitter
107	AUDATA2:PCM digital-audio data output.
108	LRCLK0:Audio Output Sample Rate Clock
109	AUDATA1:PCM digital-audio data output.
110	AUDATA0:PCM digital-audio data output.
111	CMPCLK, FSCLKN2:PCM Audio Input Bit Clock:Digital- audio bit clock input.
112	HDATA2, GPIO2:DSPC Bidirectional Data Bus, General Purpose I/O
113	VSS3:2.5V ground.
114	VDD3:2.5V supply voltage.
115	HDATA1, GPIO1:DSPC Bidirectional Data Bus, General Purpose I/O
116	HDATA0, GPIO0:DSPC Bidirectional Data Bus, General Purpose I/O
117	CMPREQ, FLRCLKN2:PCM audio input request
118	CMPDAT, FSDATAN2:Digital-audio data input that can accept either one compressed line or 2 channels of PCM data.
119	FLRCLKN1:Digital-audio frame clock input.
120	WR, DS, GPIO10:Host Write Strobe, Host Data Strobe, General Purpose I/O
121	RD, R/W, GPIO11:Host Parallel Output Enable, Host Parallel R/W, General Purpose I/O
122	PLLVSS :PLL Ground Voltage
123	FILT2: Phase-Locked Loop Filter. Connects to an external filter for the phase-locked loop.
124	FILT1: Phase-Locked Loop Filter. Connects to an external filter for the phase-locked loop.
125	PLLVDD:2.5V PLL supply voltage.
126	XTAL0: Crystal oscillator output.
127	CLKIN, XTAL1:External Clock input / Crystal Oscillator input:12MHz crystal oscillator is connected.
128	CLKSEL:DSP Clock select input
129	CS, GPIO9:Host Parallel Chip Select, General Purpose I/O
130	A0, GPIO13:Host Address Bit 0, General Purpose I/O
131	FSDATAN1:Digital-audio data input can accept from one compressed line or 2 channels of PCM data.
132	VDD4:2.5V supply voltage.
133	VSS4:2.5V ground.
134	FSCLKN1, STCCLK2:Digital audio bit clock input.
135	SCS:Host Serial SPI Chip Select:SPI mode active-low chip-select input signal.
136	SCDIN:SPI Serial Control Data Input:In SPI mode this pin serves as the data input pin.
137	VSS5:2.5V ground.
138	VDD5:2.5V supply voltage.
139	A1, GPIO12:Host Address Bit 1, General Purpose I/O
140	SCDOUT, SCDO:Serial Control Port Data Input and Output:In SPI mode this pin serves as the data output pin.
141	HINBSY, GPIO8: Input host Message Status, General Purpose I/O. This pin is indicates that serial or parallel communication data written to the DSP has not been read yet.
142	SCCLK :This pin serves as the serial SPI clock input.
143	UHS2, CS_OUT, GPIO17:Mode Select Bit 2, External Serial Memory Chip Select,General Purpose I/O
144	RESET :Master Reset Input:Asynchronous active-low master reset input.

IC BLOCK DIAGRAMS AND DESCRIPTIONS

CS5340-CZZ(101dB,192kHz, Multi-Bit Audio A/D Converter)

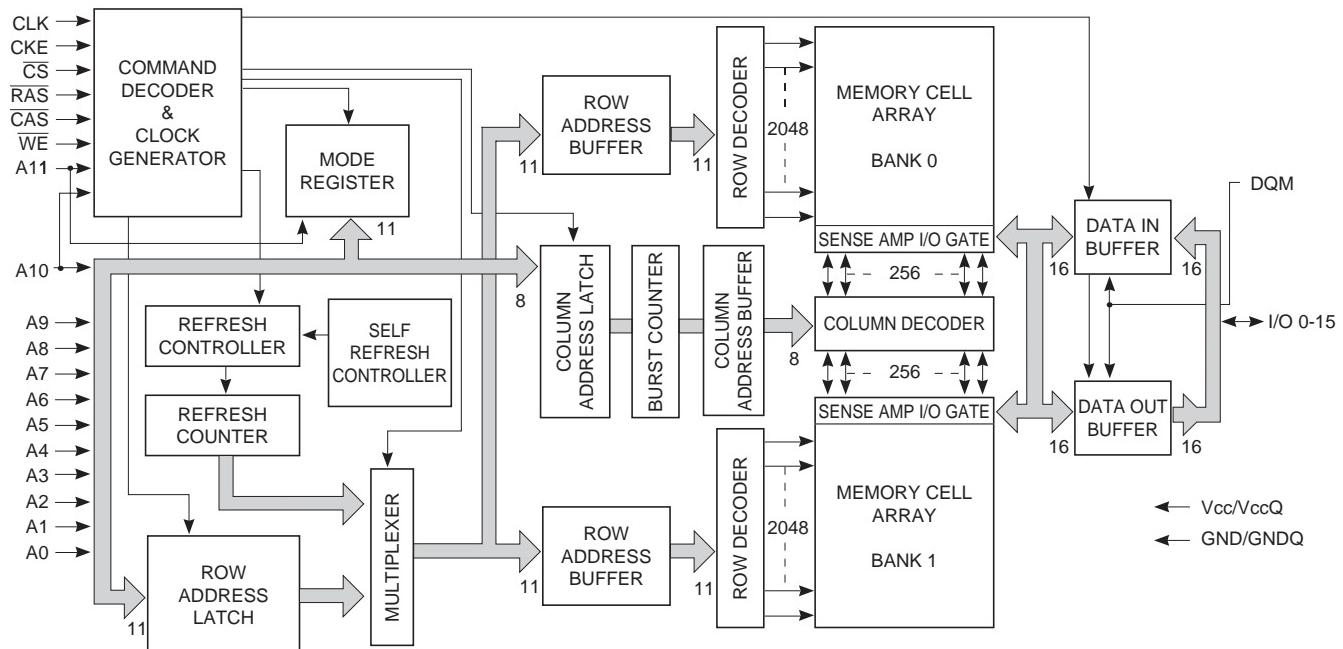


Pin	Pin Name	I/O	Description
1	M0	I	Mode Selection-Determines the operational mode of the device.
16	M1	I	
2	MCLK	I	Master Clock-Clock source for the delta-sigma modulator and digital filters.
3	VL		Logic Power-Positive power supply for digital input/output.
4	SDOUT	O	Serial Audio Data Output-Output for two's complement serial audio data.
5,14	GND		Ground-Connect to the analog ground.
6	VD	I	Digital Power-Positive power supply for the digital section.
7	SCLK	I/O	Serial Clock-Serial clock for the serial audio interface.
8	LRCK	I/O	Left Right Clock-Determines which channel, Left and Right, is currently active on the serial audio data line.
9	RST	I	Reset-The device enters a low power mode when low.
10	AINL	I	Analog Input-The full scale analog input level is 0.56Vp-p.
12	AINR	I	
11	VQ	O	Quiescent Voltage-Filter connection for the internal quiescent reference voltage.
13	VA		Analog Power-Positive power supply for the analog section.
15	FILT+	O	Positive Voltage Reference-Positive reference voltage for the internal sampling circuits.

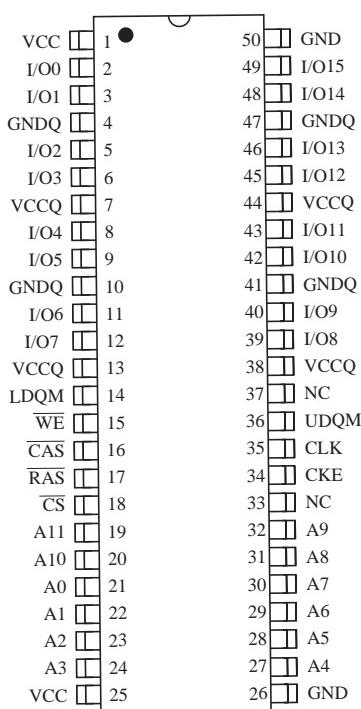
IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS

IC42S16100 (16-Mbit Synchronous Dynamic RAM)

BLOCK DIAGRAM



PIN LAYOUT

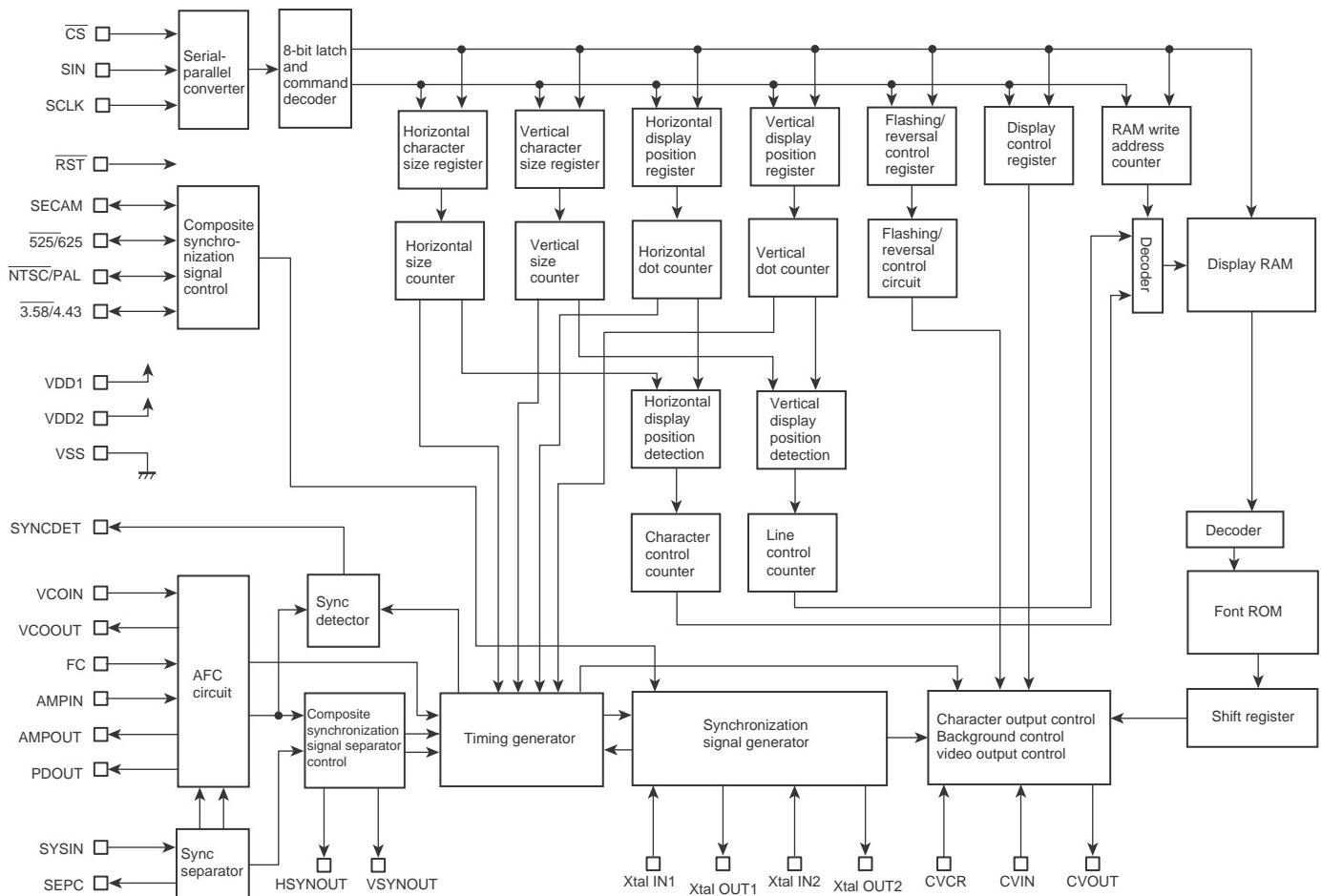


Pin No.	Pin name	Function
20 to 24 27 to 32	A0-A10	A0 to A10 are address inputs. A0-A10 are used as row address inputs during active command input and A0-A7 as column address inputs during read or write command input. A10 is also used to determine the precharge mode during other commands. If A10 is LOW during precharge command, the bank selected by A11 is precharged, but if A10 is HIGH, both banks will be precharged. When A10 is HIGH in read or write command cycle, the precharge starts automatically after the burst access. These signals become part of the OP CODE during mode register set command input.
19	A11	A11 is the bank selection signal. When A11 is LOW, bank 0 is selected and when high, bank 1 selected. This signal becomes part of the OP CODE during mode register set command input.
16	$\overline{\text{CAS}}$	$\overline{\text{CAS}}$, in conjunction with the $\overline{\text{RAS}}$ and $\overline{\text{WE}}$, forms the device command. See the "Command Truth Table" item for details on device commands.
34	CKE	The CKE input determines whether the CLK input is enabled within the device. When is CKE HIGH, the next rising edge of the CLK signal will be valid, and when LOW, invalid. When CKE is LOW, the device will be in either the power-down mode, the clock suspend mode, or the self refresh mode. The CKE is an asynchronous input.
35	CLK	CLK is the master clock input for this device. Except for CKE, all inputs to this device are acquired in synchronization with the rising edge of this pin.
18	$\overline{\text{CS}}$	The $\overline{\text{CS}}$ input determines whether command input is enabled within the device. Command input is enabled when $\overline{\text{CS}}$ is LOW, and disabled with $\overline{\text{CS}}$ is HIGH. The device remains in the previous state when CS is HIGH.
2, 3, 5, 6, 8, 9, 11, 12, 39, 40, 42, 43, 45, 46, 48, 49	I/O0 to I/O15	I/O0 to I/O15 are I/O pins. I/O through these pins can be controlled in byte units using the LDQM and UDQM pins.
14, 36	LDQM, UDQM	LDQM and UDQM control the lower and upper bytes of the I/O buffers. In read mode, LDQM and UDQM control the output buffer. When LDQM or UDQM is LOW, the corresponding buffer byte is enabled, and when HIGH, disabled. The outputs go to the HIGH impedance state when LDQM/UDQM is HIGH. This function corresponds to $\overline{\text{OE}}$ in conventional DRAMs. In write mode, LDQM and UDQM control the input buffer. When LDQM or UDQM is LOW, the corresponding buffer byte is enabled, and data can be written to the device. When LDQM or UDQM is HIGH, input data is masked and cannot be written to the device.
17	$\overline{\text{RAS}}$	$\overline{\text{RAS}}$, in conjunction with $\overline{\text{CAS}}$ and $\overline{\text{WE}}$, forms the device command. See the "Command Truth Table" item for details on device commands.
15	$\overline{\text{WE}}$	$\overline{\text{WE}}$, in conjunction with $\overline{\text{RAS}}$ and $\overline{\text{CAS}}$, forms the device command. See the "Command Truth Table" item for details on device commands.
7, 13, 38, 44	VccQ	VccQ is the output buffer power supply.
1, 25	Vcc	Vcc is the device internal power supply.
4, 10, 41, 47	GNDQ	GNDQ is the output buffer ground.
26, 50	GND	GND is the device internal ground.

IC BLOCK DIAGRAMS AND DESCRIPTIONS

LC74763-9836 (On-Screen Display IC)

BLOCK DIAGRAM



IC BLOCK DIAGRAMS AND DESCRIPTIONS

LC74763-9836 (On-Screen Display IC)

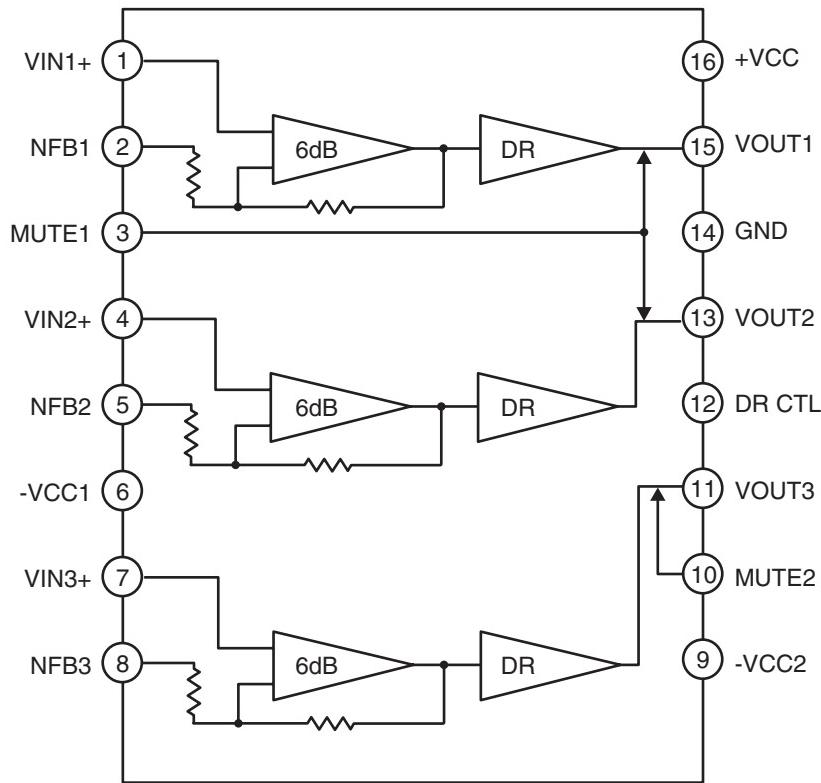
TERMINAL DESCRIPTION

Pin No.	Symbol	Function	Description
1	V _{SS}	Ground	Ground connection
2	Xtal _{IN1}	Crystal oscillator connection	Connection for the crystal and capacitor used to form the crystal oscillator that generates the internal synchronization signal. The oscillator can be selected with a command switch.
3	Xtal _{OUT1}		
4	H SYNC OUT	Horizontal synchronization output	Outputs the horizontal synchronization signal (AFC). The output polarity can be selected (metal option). Also functions as general output port (command switch).
5	Xtal _{IN2}	Crystal oscillator connection	Connection for the crystal and capacitor used to form the crystal oscillator that generates the internal synchronization signal.
6	Xtal _{OUT2}		
7	V SYNC OUT	Vertical synchronization output	Outputs the vertical synchronization signal. The output polarity can be selected (metal option). Also functions as general output port (command switch).
8	CS	Enable input	Enables/disables serial data input. Serial data is enabled when this pin is low (hysteresis input). Pull-up resistor built in (metal option).
9	SIN	Data input	Serial data input (hysteresis input). Pull-up resistor built in (metal option).
10	SCLK	Clock input	Clock input for serial data input (hysteresis input). Pull-up resistor built in (metal option).
11	SECAM	SECAM mode switch input/output (command switch)	During input, switches between SECAM and other modes. During output, functions as general output port or internal V output (command switch). Low = other modes, high = SECAM mode
12	525/625	525/625 switch input/output (command switch)	During input, switches between 525 scan lines and 625 scan lines. During output, functions as general output port or character data output (command switch). Low = 525 lines, high = 625 lines
13	NTSC/PAL	NTSC/PAL switch input/output (command switch)	Switches the color mode between NTSC and PAL. During output, functions as general output port or frame data output (command switch). Low = NTSC, high = PAL
14	3.58/4.43	3.58/4.43 switch input/output (command switch)	Switch FSC between 3.58 MHz and 4.43 MHz. During output, functions as general output port or halftone output (command switch). Low = 3.58, high = 4.43
15	RST	Reset input	System reset input pin, low is active (hysteresis input). Pull-up resistor built in (metal option).
16	CV OUT	Video signal output	Composite video output
17	V _{DD2}	Power supply connection	Power supply connection for composite video signal level generation
18	CV IN	Video signal input	Composite video input
19	CV CR	Video signal input	SECAM chroma signal input
20	SYNC IN	Sync separator circuit input	Built-in sync separator circuit video signal input
21	SEP C	Sync separator circuit	Built-in sync separator circuit
22	V _{SS}	Ground	Ground connection
23	PD OUT	Control voltage output	AFC control voltage output
24	AMP IN	AFC filter connection	Filter connection
25	AMP OUT		
26	FC	Control voltage input	AFC control voltage input
27	VCO IN	LC oscillator connection	VCO LC oscillator circuit coil and capacitor connection
28	VCO OUT		
29	SYNC DET	External synchronization signal detection output	Outputs the exclusive NOR of the horizontal synchronization signal (AFC) and CSYNC (sync separator). The output polarity can be selected (metal option). Also functions as general output port (command switch).
30	V _{DD1}	Power supply connection	Power supply connection (+5 V: digital system power supply)

IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS

LA7106M (6ch AMP + Driver)

BLOCK DIAGRAM



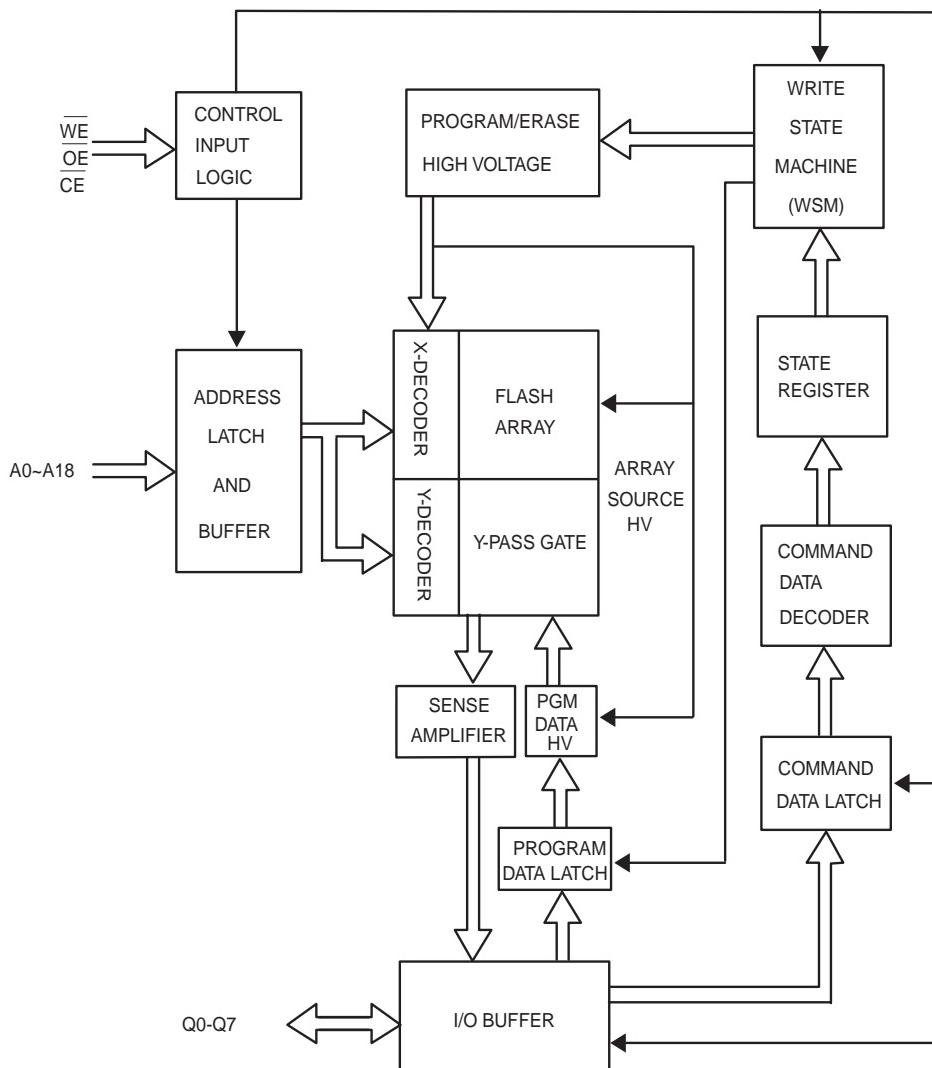
TRUTH TABLE

	Pins 3 , 10	Pin 12
H	Through	150 ohm Drive
L	Mute	75 ohm Drive

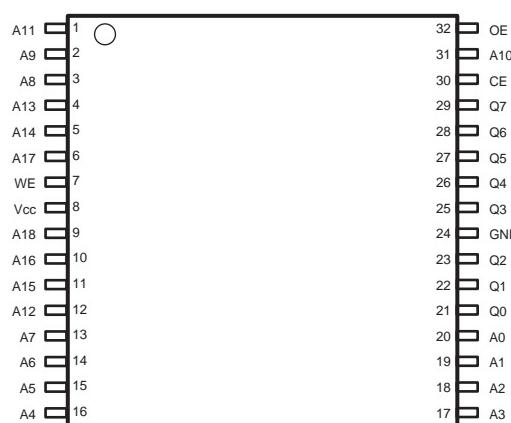
IC BLOCK DIAGRAMS AND DESCRIPTIONS

MX26LV040-70/EN29LV040A(4M-bit CMOS High Speed Flash Memory)

BLOCK DIAGRAM



BLOCK DIAGRAM



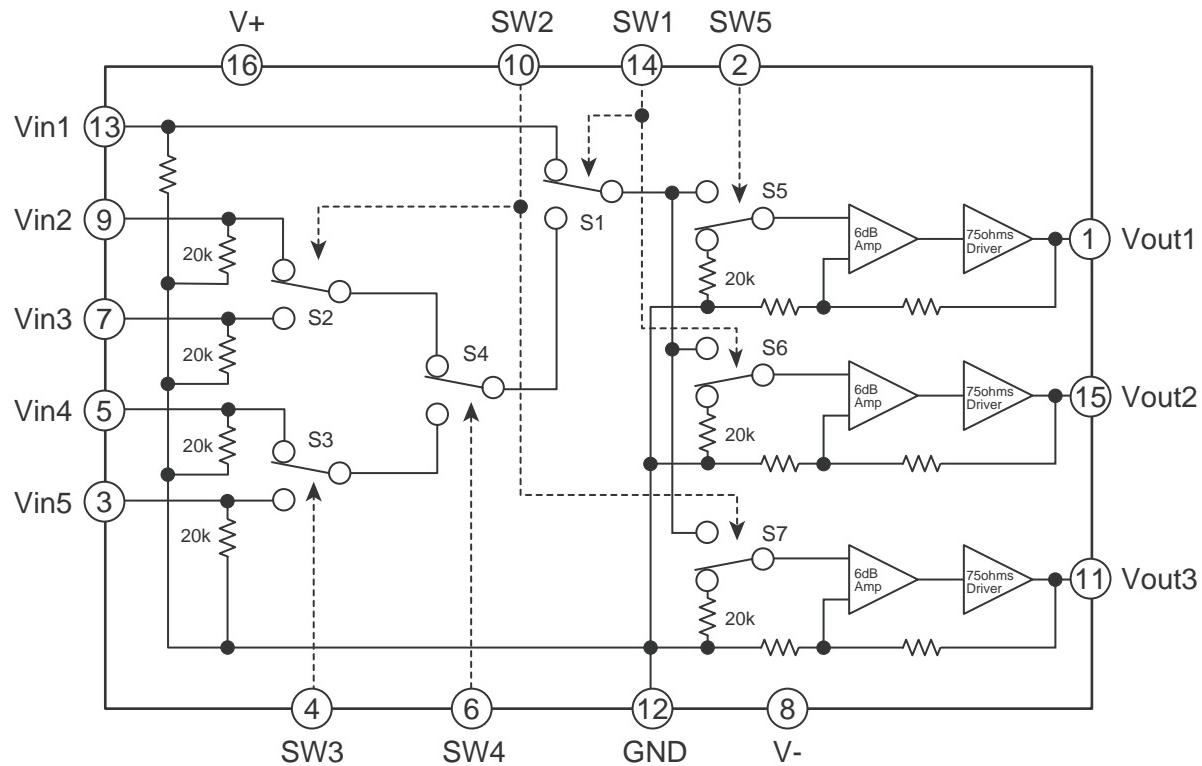
PIN DESCRIPTION

SYMBOL	PIN NAME
A0~A18	Address Input
Q0~Q7	Data Input/Output
\overline{CE}	Chip Enable Input
\overline{WE}	Write Enable Input
\overline{OE}	Output Enable Input
VCC	Power Supply Pin (+5V)
GND	Ground Pin

IC BLOCK DIAGRAMS AND DESCRIPTIONS

NJM2595M(5-INPUT 3-OUTPUT VIDEO SWITCH)

BLOCK DIAGRAM



TRUTH TABLE

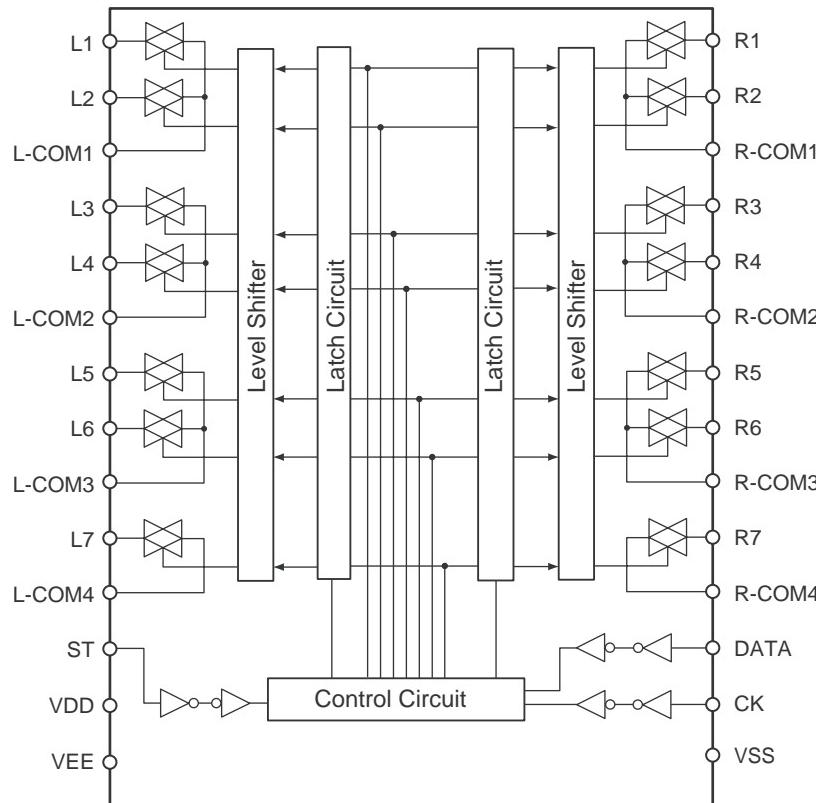
Control Signal vs. Output Signal (L=VCL, H=VCH, X=L or H)

SW1	SW2	SW3	SW4	SW5	Vout1	Vout2	Vout3
L	H	X	X	H	Vin1	MUTE	Vin1
	L			H	Vin1	MUTE	MUTE
	H			L	MUTE	MUTE	Vin1
H	L	X	L	H	Vin2	Vin2	MUTE
				L	MUTE	Vin2	MUTE
H	H	X	L	H	Vin3	Vin3	Vin3
				L	MUTE	Vin3	Vin3
H	H	L	H	H	Vin4	Vin4	Vin4
	H			L	MUTE	Vin4	Vin4
	L			H	Vin4	Vin4	MUTE
	L			L	MUTE	Vin4	MUTE
H	H	H	H	H	Vin5	Vin5	Vin5
	H			L	MUTE	Vin5	Vin5
	L			H	Vin5	Vin5	MUTE
	L			L	MUTE	Vin5	MUTE
L	L	X	X	L	MUTE	MUTE	MUTE

IC BLOCK DIAGRAMS AND DESCRIPTIONS

NJU7311AM (Analog Function Switch)

BLOCK DIAGRAM

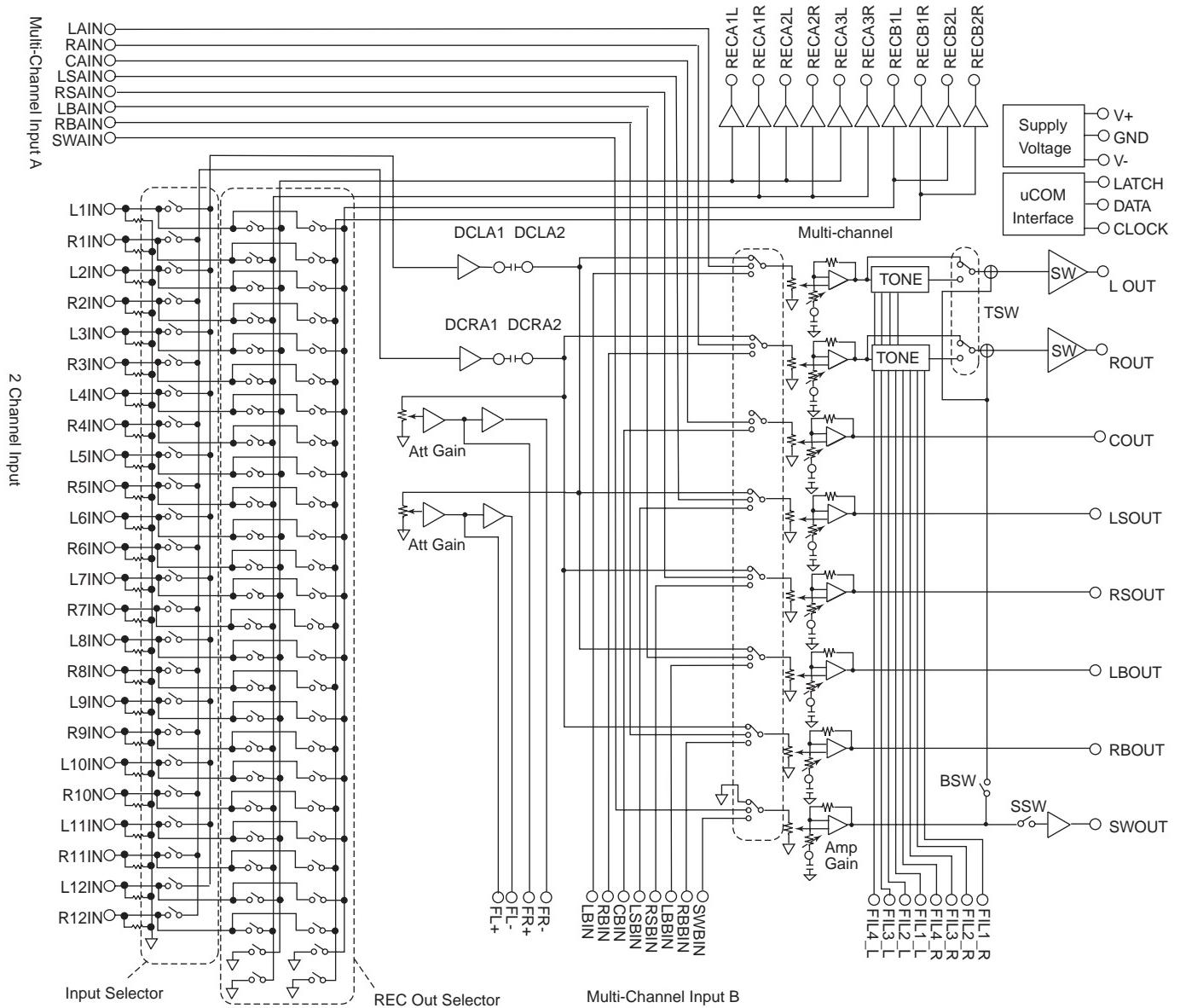


TERMINAL DESCRIPTION

Pin No.	Pin Name	Description	Pin No.	Pin Name	Description
1	VEE	Negative Voltage Supply	15	CK	Clock input
2	L1	Analog switch input/output	16	DATA	Data input
3	L2	Analog switch input/output	17	R-COM4	R7 Common
4	L-COM1	L1, L2, Common	18	R7	Analog switch input/output
5	L3	Analog switch input/output	19	R-COM3	R5, R6 Common
6	L4	Analog switch input/output	20	R6	Analog switch input/output
7	L-COM2	L3, L4 common	21	R5	Analog switch input/output
8	L5	Analog switch input/output	22	R-COM2	R3, R4 Common
9	L6	Analog switch input/output	23	R4	Analog switch input/output
10	L-COM3	L5, L6 Common	24	R3	Analog switch input/output
11	L7	Analog switch input/output	25	R-COM1	R1, R2, Common
12	L-COM4	L7 Common	26	R2	Analog switch input/output
13	ST	Chip enable	27	R1	Analog switch input/output
14	VSS	GND	28	VDD	Positive voltage supply

IC BLOCK DIAGRAMS AND DESCRIPTIONS

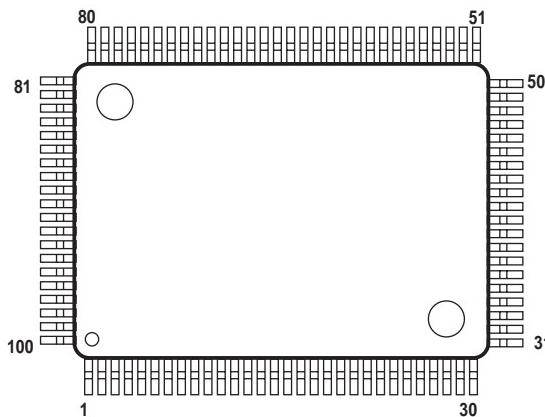
NJW1157(8-Channel Electronic Volume with Input Selector)



IC BLOCK DIAGRAMS AND DESCRIPTIONS

NJW1157(8-Channel Electronic Volume with Input Selector)

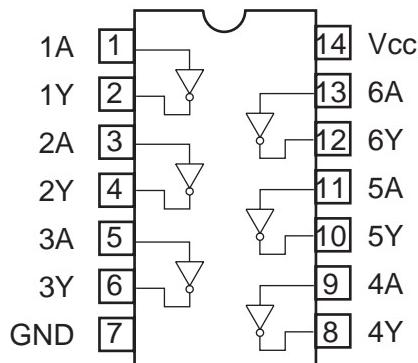
PIN FUNCTION



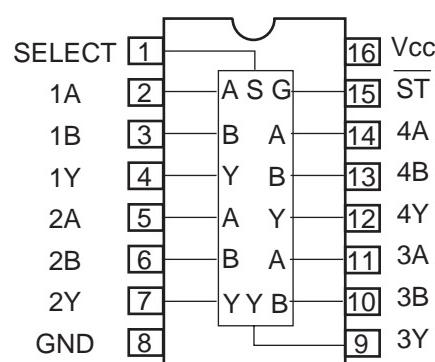
No.	SYMBOL	FUNCTION	No.	SYMBOL	FUNCTION
1	LOUT	Lch output	51	L1IN	"Input selector" Lch input 1
2	ROUT	Rch output	52	R1IN	"Input selector" Rch input 1
3	COUT	Cch output	53	L2IN	"Input selector" Lch input 2
4	LSOUT	LSch output	54	R2IN	"Input selector" Rch input 2
5	RSOUT	RSch output	55	L3IN	"Input selector" Lch input 3
6	LBOUT	LBch output	56	R3IN	"Input selector" Rch input 3
7	RBOUT	RBch output	57	L4IN	"Input selector" Lch input 4
8	SWOUT	SWch output	58	R4IN	"Input selector" Rch input 4
9	DC_L1	Lch Bass filter DC cut capacitor output terminal	59	L5IN	"Input selector" Lch input 5
10	DC_L2	Lch Bass filter DC cut capacitor input terminal	60	R5IN	"Input selector" Rch input 5
11	FIL_BL	Lch Bass filter terminal	61	L6IN	"Input selector" Lch input 6
12	FIL_TL	Lch Treble filter terminal	62	R6IN	"Input selector" Rch input 6
13	DC_R1	Rch Bass filter DC cut capacitor output terminal	63	L7IN	"Input selector" Lch input 7
14	DC_R2	Rch Bass filter DC cut capacitor input terminal	64	R7IN	"Input selector" Rch input 7
15	FIL_BR	Rch Bass filter terminal	65	L8IN	"Input selector" Lch input 8
16	FIL_TR	Rch Treble filter terminal	66	R8IN	"Input selector" Rch input 8
17	N.C.	No connect	67	L9IN	"Input selector" Lch input 9
18	N.C.	No connect	68	R9IN	"Input selector" Rch input 9
19	V+	+ Power supply voltage input	69	L10IN	"Input selector" Lch input 10
20	V-*	- Power supply voltage input	70	R10IN	"Input selector" Rch input 10
21	REC_A1L	"Input selector" Lch REC output A1	71	L11IN	"Input selector" Lch input 11
22	REC_A1R	"Input selector" Rch REC output A1	72	R11IN	"Input selector" Rch input 11
23	REC_A2L	"Input selector" Lch REC output A2	73	L12IN	"Input selector" Lch input 12
24	REC_A2R	"Input selector" Rch REC output A2	74	R12IN	"Input selector" Rch input 12
25	REC_A3L	"Input selector" Lch REC output A3	75	NC	No connect
26	REC_A3R	"Input selector" Rch REC output A3	76	DGND	Digital Ground
27	REC_B1L	"Input selector" Lch REC output B1	77	DATA	Control data signal input
28	REC_B1R	"Input selector" Rch REC output B1	78	CLOCK	Clock signal input
29	REC_B2L	"Input selector" Lch REC output B2	79	LATCH	Latch signal input
30	REC_B2R	"Input selector" Rch REC output B2	80	LAIN	Multi-channel Lch input A
31	DCCAP_L	Switching noise rejection capacitor	81	RAIN	Multi-channel Rch input A
32	DCCAP_R	Switching noise rejection capacitor	82	CAIN	Multi-channel Cch input A
33	DCCAP_C	Switching noise rejection capacitor	83	LSAIN	Multi-channel LSch input A
34	GND	Ground	84	RSAIN	Multi-channel RSch input A
35	GND	Ground	85	LBAIN	Multi-channel LBch input A
36	DCCAP_LS	Switching noise rejection capacitor	86	RBAIN	Multi-channel RBch input A
37	DCCAP_RS	Switching noise rejection capacitor	87	SWAIN	Multi-channel SWch input A
38	DCCAP_LB	Switching noise rejection capacitor	88	LBIN	Multi-channel Lch input B
39	DCCAP_RB	Switching noise rejection capacitor	89	RBIN	Multi-channel Rch input B
40	DCCAP_SW	Switching noise rejection capacitor	90	CBIN	Multi-channel Cch input B
41	DCL_OUT	"Input selector" Lch output	91	LSBIN	Multi-channel LSch input B
42	DCL_IN	"Multi-channel selector" Lch output	92	RSBIN	Multi-channel RSch input B
43	DCR_OUT	"Input selector" Rch output	93	LBBIN	Multi-channel LBch input B
44	DCR_IN	"Multi-channel selector" Rch output	94	RBBIN	Multi-channel RBch input B
45	FL+	"Input selector gain control" Lch no-inverted output	95	SWBIN	Multi-channel SWch input B
46	FL-	"Input selector gain control" Lch inverted output	96	GND	Ground
47	FR+	"Input selector gain control" Rch no-inverted output	97	GND	Ground
48	FR-	"Input selector gain control" Rch inverted output	98	VSSOUT2	Internal Digital -Power Supply Output 2
49	VDDOUT	Internal Digital +Power Supply Output	99	VDDOUT2	Internal Digital +Power Supply Output 2
50	VSSOUT	Internal Digital -Power Supply Output	100	TCCAP	Switching noise rejection capacitor

IC BLOCK DIAGRAMS AND DESCRIPTIONS

74HC04F(Hex Inverter)



TC74VHC157FT(Quad 2-channel Multiplexer)

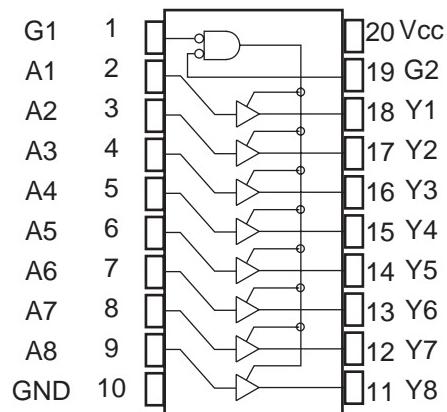


Truth Table

INPUTS				OUTPUT
ST	SELECT	A	B	
H	X	X	X	L
L	L	L	X	L
L	L	H	X	H
L	H	X	L	L
L	H	X	H	H

X:Don't care

TC74VHC541FT/T541AFT(Octal buss buffer)



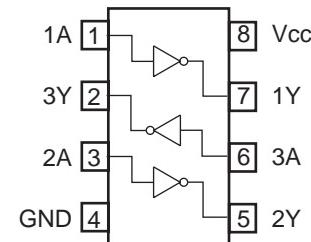
Truth Table

INPUTS			OUTPUT
G1	G2	An	Yn
H	X	X	Z
X	H	X	Z
L	L	H	H
L	L	L	L

X:Don't care

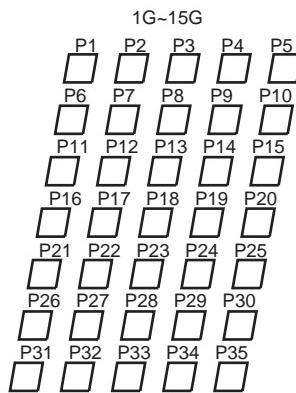
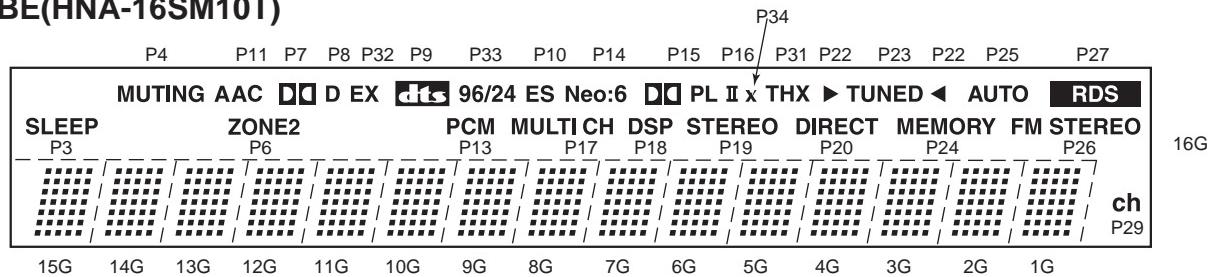
Z:High Impedance

TC7WU04FU(3 Inverter)



IC BLOCK DIAGRAM AND DESCRIPTION

FL TUBE(HNA-16SM10T)

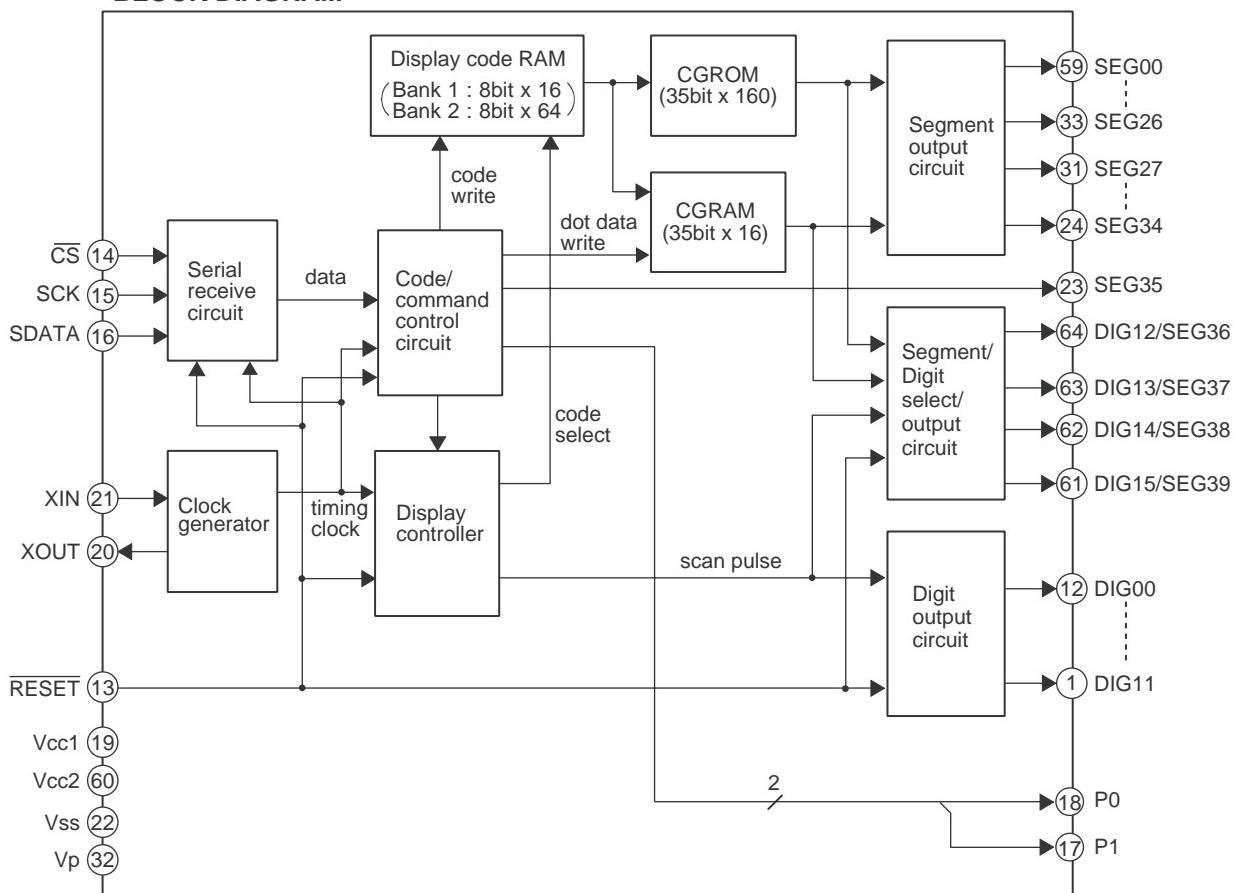


M66005 TERMINAL DESCRIPTION

PIN NO.	SYMBOL	PIN NAME	DESCRIPTION
13	RESET	Reset input	This pin is used to initialize the internal state of the M66005.
14	CS	Chip select input	"L" : Communication with the MCU is possible. "H" : Any instruction from the MCU is neglected.
15	SCK	Shift clock input	At the rising edge from "L" to "H", input data is shifted.
16	SDATA	Serial data input	Character code or command data to display is input from MSB.
21, 20	XIN, XOUT	Clock input Clock output	This pin is used to connect a resistor and a capacitor externally to set oscillation frequency.
1~12 61~64	DIG00 ~ DIG15	Digit output	These pins are used to connect to digit pins of VFD.
23~31 33~59	SEG00 ~ SEG39	Segment output	These pins are used to connect to segment pins of VFD.
17, 18	P0, P1		Output port (static operation)
19	VCC1		Positive power supply for internal logic.
60	VCC2		Positive power supply for high-pressure-resistant output port.
22	VSS		GND
32	VP		Negative power supply for VFD drive.

M66005 (FL tube driver)

BLOCK DIAGRAM



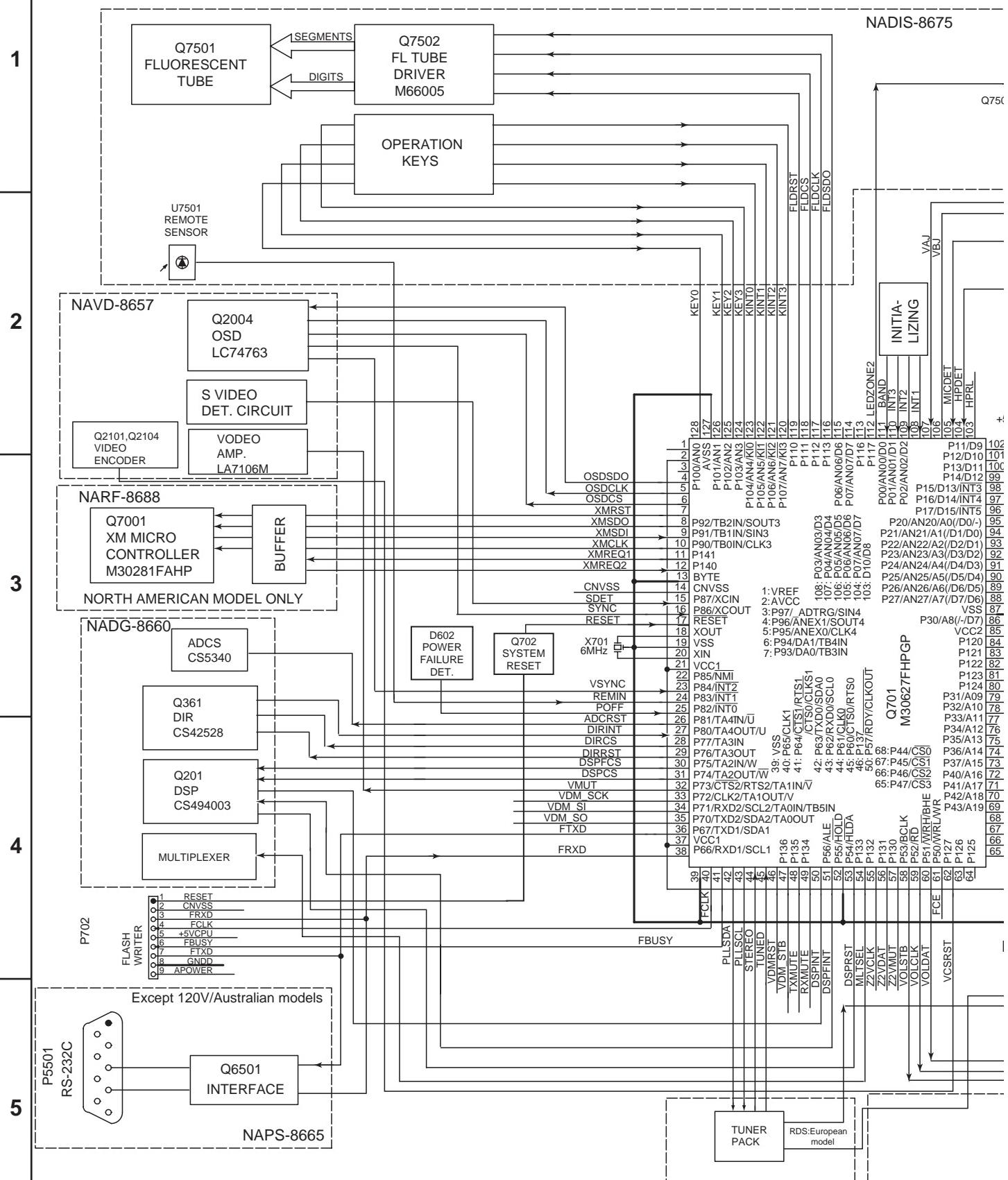
A

B

C

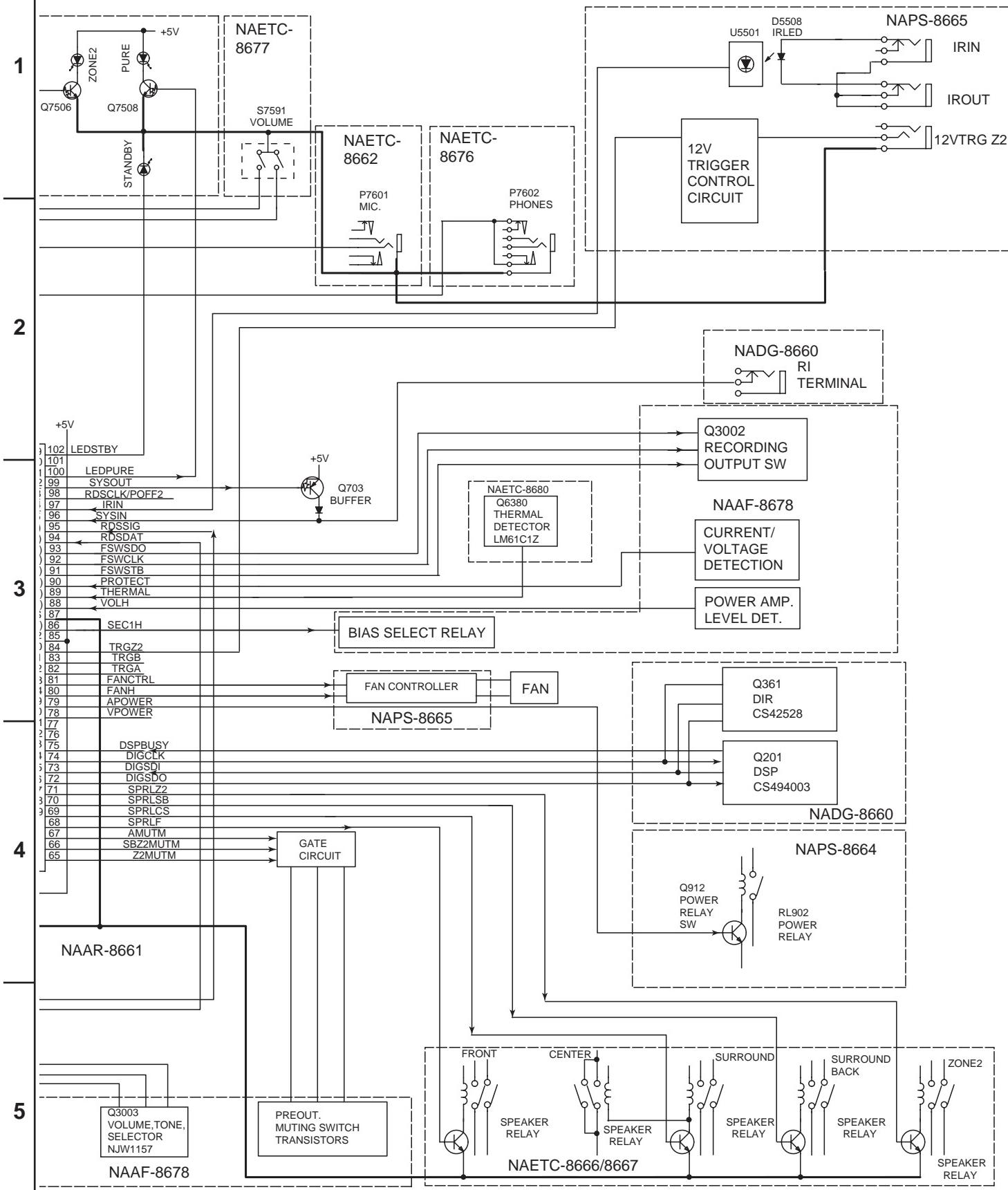
D

MICROPROCESSOR-CONNECTION DIAGRAM



A**B****C****D**

MICROPROCESSOR-CONNECTION DIAGRAM

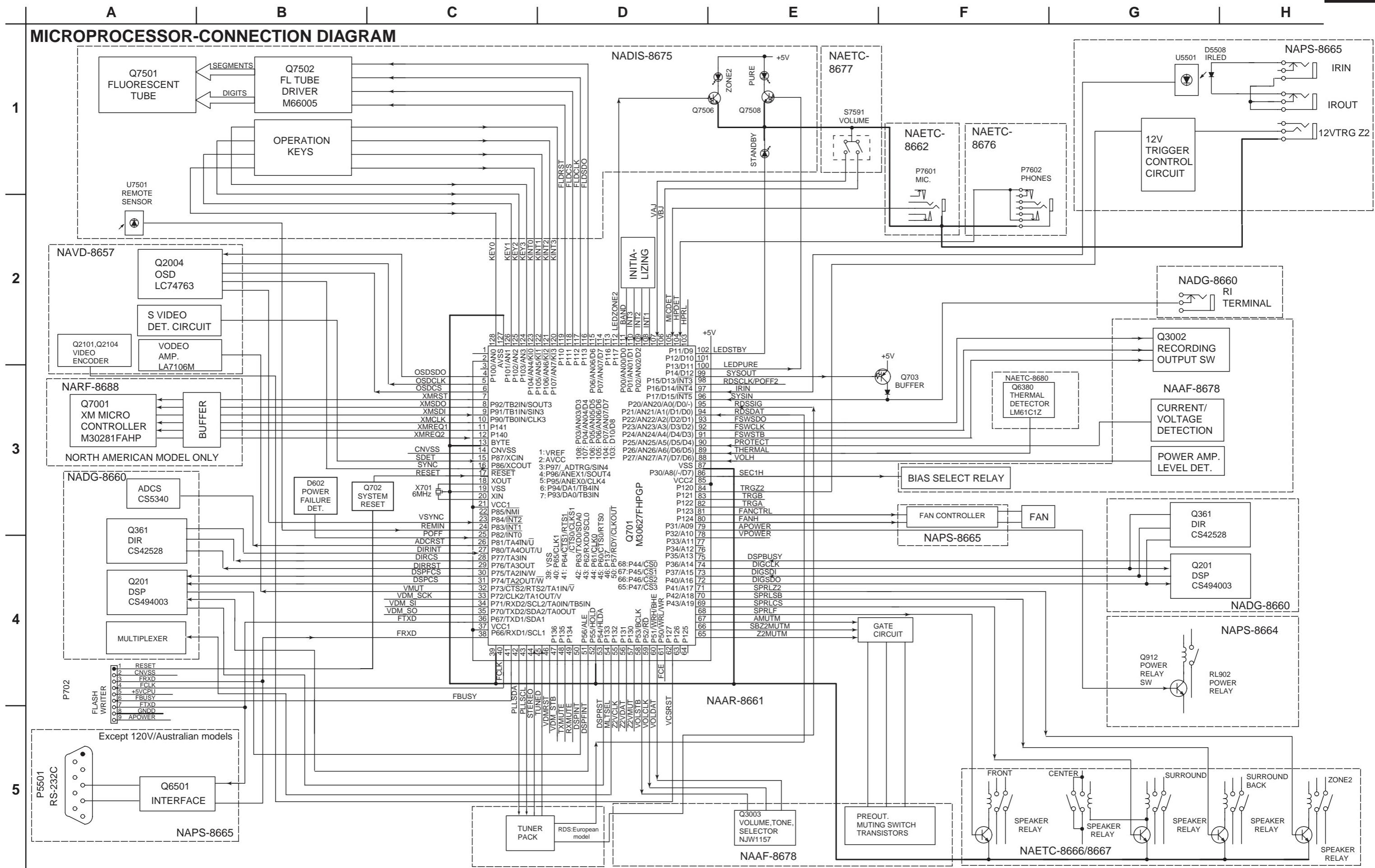


MICROPROCESSOR TERMINAL DESCRIPTIONS

No.	Pin Name	Function	I/O	Act.	Description
1	Vref	Vref			A/D Reference Voltage (Vcc)
2	AVcc	AVcc			A/D Power supply
3	P97/-ADTRG/SIN4		O	H	No connect
4	P96/ANEX1/SOUT4	OSDSDO	O	H	Data output for on-screen display.
5	P95/ANEX0/CLK4	OSDCLK	O	CLK	OSD IC Serial Communication Clock Output.
6	P94/DA1/TB4IN	OSDCS	O	H	OSD IC Chip Select Output
7	P93/DA0/TB3IN	XMRST	O	L	Reset output to XM microprocessor.
8	P92/TB2IN/SOUT3	XMSDO	O	H	Serial data output to XM microprocessor.
9	P91/TB1IN/SIN3	XMSDI	I	H	Serial data input from XM microprocessor.
10	P90/TB0IN/CLK3	XMCLK	O	CLK	Serial clock output to XM microprocessor.
11	P141	~XMREQ1	I	L	Serial data chip request input from XM microprocessor.
12	P140	~XMREQ2	O	H	Serial data chip request output to XM microprocessor.
13	BYTE	BYTE			External bus width select pin. Connects to the ground.
14	CNVSS	CNVss			Processor mode select pin. Connects to the ground via resistor.
15	P87/XCIN	~SDET	I	L	S Video input detection pin.
16	P86/XCOUT	~SYNC	I	L	Sync. detection pin.
17	~RESET	~RESET	I	L	Reset input
18	XOUT	Xout			Ceramic oscillator connection pin.
19	VSS	Vss			Power supply Ground
20	XIN	Xin			Ceramic oscillator connection pin.
21	VCC1	Vcc1			Power supply Vcc.
22	P85/-NMI	~NMI	I	L	Connect the pull-up resistor.
23	P84/-INT2	~VSYNC	I	L	Vertical sync signal detection input.
24	P83/-INT1	~REMIN	I	L	Remote control input.
25	P82/-INT0	POFF	I	H	Power failure detection input pin.
26	P81/TA4IN/~U	~ADCRST	O	L	Multi channel AD Reset output
27	P80/TA4OUT/U	DIRINT	I	H	DIR interrupt request detection pin.
28	P77/TA3IN	~DIRCS	O	L	DIR/CODEC chip select output pin.
29	P76/TA3OUT	~DIRRST	O	L	DIR/CODEC reset output pin.
30	P75/TA2IN/~W	~DSPFCS	O	L	Chip select output pin for DSP AB
31	P74/TA2OUT/W	~DSPCS	O	L	Chip select output pin for DSP C
32	P73/-CTS2/-RTS2/TA1IN/~V	~VMUT	O	L	Video mute control output pin
33	P72/CLK2/TA1OUT/V	VDM_SCK	O	H	Clock output pin to Video microprocessor.
34	P71/RXD2/SCL2/TA0IN/TB5IN	VDM_SI	I	H	Data output pin to Video microprocessor.
35	P70/TXD2/SDA2/TA0OUT	VDM_SO	O	H	Data input pin from Video microprocessor.
36	P67/TXD1/SDA1	FTXD	O	H	Port for writing Flash./RS232 port output.
37	Vcc1				Power supply
38	P66/RXD1/SCL1	FRXD	I	H	Port for writing Flash./RS232 port input.
39	Vss				Ground
40	P65/CLK1	FCLK	O	CLK	Port for writing Flash.
41	P64/-CTS1/-RTS1/-CTS0/CLKS1	FBUSY	O	H	Port for writing Flash.
42	P63/TXD0/SDA0	PLLSDA/VCSDA	I/O	H	Tuner I2C bus data pin/Video Dec/Enc serial communication data output pin
43	P62/RXD0/SCL0	PLLSCL/VCSCl	O	CLK	Tuner I2C bus clock output pin/Video Dec/Enc serial communication clock output pin
44	P61/CLK0	~STEREO	I	L	FM stereo broadcast deflection input
45	P60/-CTS0/-RTS0	~TUNED	I	L	Tuner tuned detection input pin
46	P137	~VDMRST	O	H	Reset output pin to video microprocessor.
47	P136	VDM_STB	I	H	Strobe input pin from video microprocessor.
48	P135	TXMUTE	O	H	Muting output pin to video microprocessor.
49	P134	RXMUTE	I	H	Muting input pin from video microprocessor.
50	P57/-RDY/CLKOUT	~DSPINT	I	L	Interrupt request detection pin for DSP C.
51	P56/ALE	~DSPFINT	I	L	Interrupt request detection pin for DSP AB.
52	P55/-HOLD				Connect to the ground.
53	P54/-HLDA	~DSPRST	O	L	DSP reset output pin
54	P133	MLTSEL	O	H	Multi Ch AD and HDMI(I2S) select pin
55	P132	Z2VCLK	O	H	Serial clock output pin for Zone2 Volume IC.
56	P131	Z2VDAT	O	H	Serial data output pin for Zone2 Volume IC.
57	P130	Z2VMUT	O	H	Mute control output pin for Zone2 Volume IC.
58	P53/BCLK	VOLSTB	O	H	Strobe output for Volume
59	P52/-RD	VOLCLK	O	CLK	Serial clock output for Volume
60	P51/-WRH/-BHE	VOLDAT	O	H	Serial data output for Volume
61	P50/-WRL/~WR	~FCE	I	H	Port for writing Flash.
62	P127	~VCRST	O	L	Video Dec/Enc reset control pin
63	P126				
64	P125				

MICROPROCESSOR TERMINAL DESCRIPTIONS

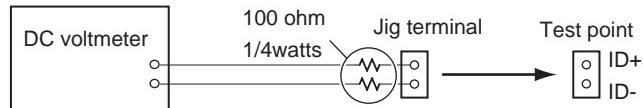
No.	Pin Name	Function	I/O	Act.	Description
65	P47/-CS3	Z2MUT	O	H	Zone2 Out mute control pin
66	P46/-CS2	SBZ2MUT	O	H	Surround back/Zone2 mute control.
67	P45/-CS1	AMUT	O	H	Audio mute control pin
68	P44/-CS0	SPRLF	O	H	Front speaker relay control pin
69	P43/A19	SPRLCS	O	H	Center/Surround back speaker relay control pin.
70	P42/A18	SPRLSB	O	H	Surround back speaker relay control pin.
71	P41/A17	SPRLZ2	O	H	Zone2 speaker relay control pin
72	P40/A16	DIGSDO	O	H	Serial communication data output pin for DIR/CODEC/DSP.
73	P37/A15	DIGSDI	I	H	Serial communication data input pin for DIR/CODEC/DSP.
74	P36/A14	DIGCLK	O	CLK	Serial communication clock output pin for DIR/CODEC/DSP.
75	P35/A13	DSPBUSY	I	H	Busy detection pin for DSP C.
76	P34/A12	DGSW1	O	H	DIGITAL AUDIO MCK select 1. Not used.
77	P33/A11	DGSW2	O	H	DIGITAL AUDIO MCK select 2. Not used.
78	P32/A10	VPOWER	O	H	Power control output for video section
79	P31/A09	APOWER	O	H	Power source control output
80	P124	FANH	O	L	Fan speed control pin. High: Low speed Low: High speed
81	P123	FANCTRL	O	L	Fan operation control pin. High: Stop Low: Rotation
82	P122	TRGA	O	H	12V trigger output A
83	P121	TRGB	O	H	12V trigger output B
84	P120	TRGZ2	O	H	12V trigger output ZONE2
85	VCC2	Vcc2			Power supply
86	P30/A8(/-D7)	SEC1H	O	H	Voltage select control pin
87	VSS	Vss			Ground
88	P27/AN27/A7(/D7/D6)	VOLH	I	A/D	Signal level detection circuit
89	P26/AN26/A6(/D6/D5)	THERMAL	I	A/D	Thermal detection pin
90	P25/AN25/A5(/D5/D4)	PROTECT	I	H	Protection circuit detection circuit
91	P24/AN24/A4(/D4/D3)	FSWSTB	O	H	Strobe output pin for function switch
92	P23/AN23/A3(/D3/D2)	FSWCLK	O	H	Serial clock output pin for function switch
93	P22/AN22/A2(/D2/D1)	FSWSDO	O	H	Serial data output pin for function switch
94	P21/AN21/A1(/D1/D0)	RDSDAT	I	H	Serial data input pin for RDS
95	P20/AN20/A0(/D0/-)	RDSSIG	I	H	Demodulator data input pin for RDS
96	P17/D15/-INT5	SYSIN	I	H	RI input pin
97	P16/D14/-INT4	-IRIN	I	L	IRIN remote control input pin
98	P15/D13/-INT3	-RDSCLK/POFF2	I	L	Serial clock input pin for RDS
99	P14/D12	-SYSOUT	O	L	RI output pin
100	P13/D11	LEDPURE	O	H	Pure Audio LED control output pin
101	P12/D10				
102	P11/D9	LEDSTBY	O	H	STANDBY LED control pin
103	P10/D8	HPRL	O	H	Headphone relay control pin
104	P07/AN07/D7	HPDET	I	H	Headphone detection input
105	P06/AN06/D6	-MICDET	I	L	Microphone detection input
106	P05/AN05/D5	VOLB	I	CLK	Rotary encoder input for Volume
107	P04/AN04/D4	VOLA	I	CLK	Rotary encoder input for Volume
108	P03/AN03/D3	INIT3	I	A/D	Initializing pin 3
109	P02/AN02/D2	INIT2	I	A/D	Initializing pin 2
110	P01/AN01/D1	INIT1	I	A/D	Initializing pin 1
111	P00/AN00/D0	BAND	I	A/D	Initializing pin for tuner section
112	P117	LEDZONE2	O	H	Zone2 LED control pin
113	P116				
114	P115				
115	P114				
116	P113	FLDSDO	O	H	Serial data output for FL driver
117	P112	FLDCLK	O	H	Serial clock output for FL driver
118	P111	FLDCS	O	H	Chip select output for FL driver
119	P110	-FLDRST	O	L	Reset output for FL driver
120	P107/AN7/-KI3	-KEYINT3	I	L	Key input interrupt 3
121	P106/AN6/-KI2	-KEYINT2	I	L	Key input interrupt 2
122	P105/AN5/-KI1	-KEYINT1	I	L	Key input interrupt 1
123	P104/AN4/-KI0	-KEYINT0	I	L	Key input interrupt 0
124	P103/AN3	KEY3	I	A/D	Key input 3
125	P102/AN2	KEY2	I	A/D	Key input 2
126	P101/AN1	KEY1	I	A/D	Key input 1
127	AVSS	AVss			Ground for A/D
128	P100/AN0	KEY0	I	A/D	Key input 0



ADJUSTMENT AND CONFIRMATION PROCEDURES 1

Idling current adjustment

Before Idling current adjustment, turn the trimming resistors R6040 to R6046 to counter-clockwise. Connect the DC voltmeter at the sockets P6080 to P6086 via the carbon resistors 100 ohm 1/4W.



After turn POWER to ON, adjust the trimming resistors R6040, R6041 and R6042 so that the reading of voltmeter becomes 2.5 mV. (Front and center channels)

Adjust the trimming resistors R6043, R6044, R6045 and R6046 so that the reading of voltmeter becomes 1.5 mV. (Surround and surround back channels)

After adjustment, attach the top cover.

Confirm the voltage of points above after about five minutes.

Front and center channels

When less than 9.0 mV, readjust the resistors above so that the voltage becomes 9.0 mV.

When 9.0 mV to 11.0 mV, you are not necessary to adjust.

When more than 11.0 mV, readjust the resistors above so that the voltage becomes 11.0 mV.

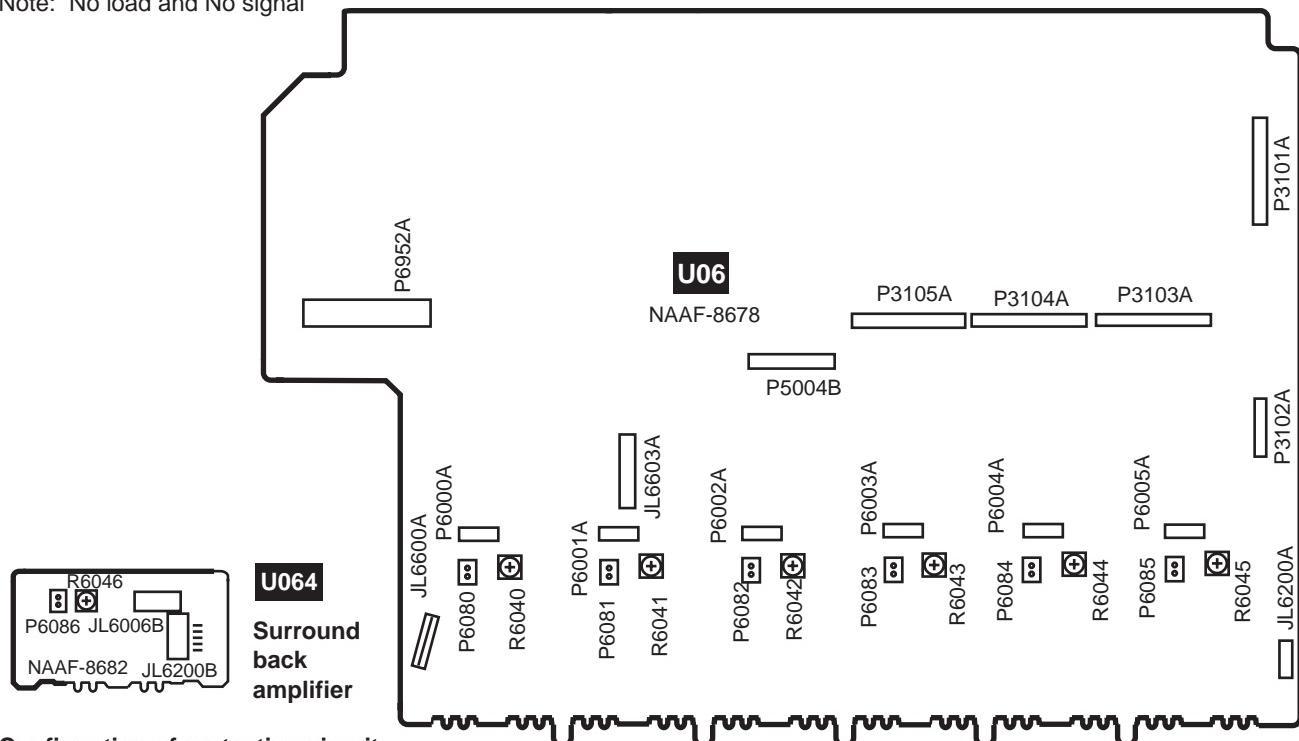
Surround and surround back channels

When less than 6.0 mV, readjust the resistors above so that the voltage becomes 6.0 mV.

When 6.0 mV to 8.0 mV, you are not necessary to adjust.

When more than 8.0 mV, readjust the resistors above so that the voltage becomes 8.0 mV.

Note: No load and No signal



Confirmation of protection circuit

1. Confirmation of operation of speaker relay

Confirm that the speaker relays turn ON approximate 5 seconds after the power switch is turned ON.
Confirm that the speaker relays turn OFF immediately after the power switch is turned OFF.

2. Confirmation of DC detection circuit

Press and hold down CD button, then press STANDBY/ON button to set the unit to "Test- 1".

After "Test- 1" on the FL tube light on, press DVD button to set the unit to "Test- 1-00".

Apply DC 1.5 to 3.5V to the MULTI-CH INPUT terminal with no load.

Confirm that the speaker relay turns OFF.

Apply DC -1.5 to -3.5 V to the MULTI-CH INPUT terminal with no load.

Confirm that the speaker relay turns OFF.

Caution: Don't apply DC voltage more than 1 sec..

ADJUSTMENT AND CONFIRMATION PROCEDURES 2

3. Confirmation of Current detection circuit

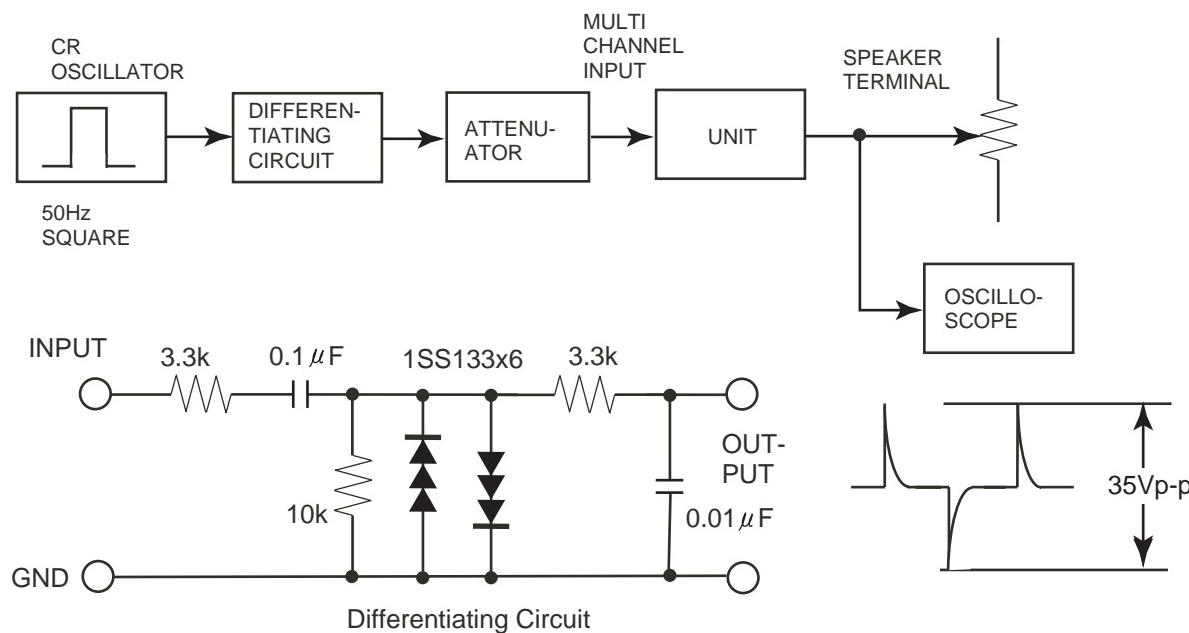
Set the unit to "Test- 1-00".

Connect the differentiating circuit and apply the 50Hz square signal to MULTI CHANNEL INPUT terminal of each channel.

Adjust the attenuator or Volume so that the output level becomes 35V p-p.

Confirm that the speaker relay does not turn OFF when a 3.0 ohm load is connected.

Confirm that the speaker relay turns OFF when a 1.0 ohm load is connected.



Test Mode

1. Turn POWER button on.
2. Press and hold down CD button, then press STANDBY/ON button.
3. After "Test - " on the FL tube is displayed, press CD button to set the unit to the test mode of FL tube.
Note: DVD :Test- 1 VIDEO 1 :Test- 2
VIDEO 2 :Test- 3 VIDEO 3:Test- 4

Change of item

Tone +UP

Tone -DOWN

Test- X-YZ

Item

Check of unit by test mode

Voltage detection circuit

Set the unit to "Test- 4-21".

The microprocessor checks the output voltage of all channels automatically

When the output voltage is abnormal, "Protect NG" is displayed on FL tube.

When the voltage of all channels is normal, "Test- 4-35" is displayed on FL tube.

4-21:FL 4-22:FR 4-23:C 4-24:SL 4-25:SR 4-26:SBL 4-27:SBR

Current detection circuit

Set the unit to "Test- 4-35".

Connect the hollow resistor 3 ohm across the speaker terminal.

Check that the speaker relay turn On.

When connect the hollow resistor 1.0 ohm, check that the speaker relay turn Off.

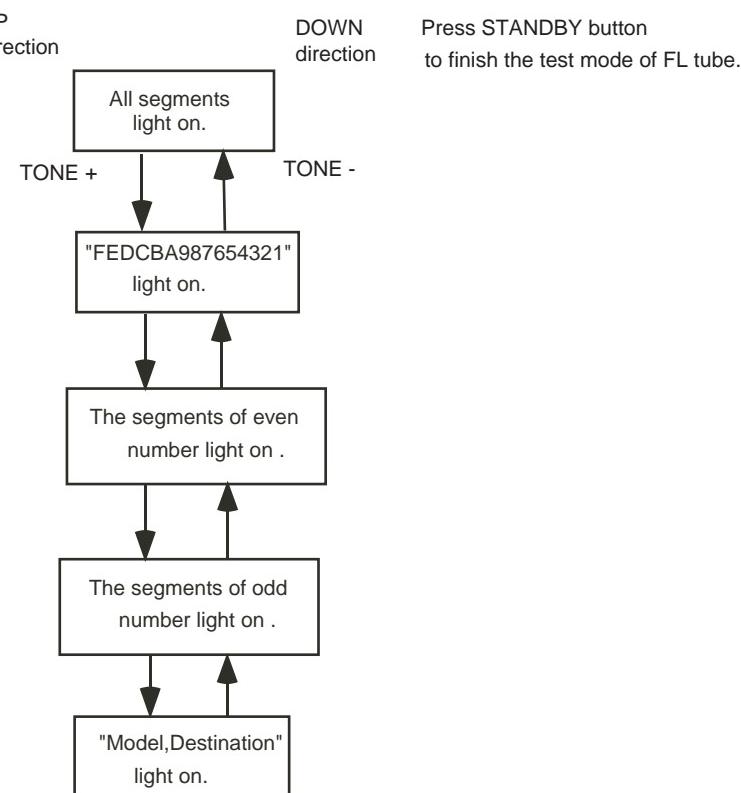
Note: Check the all channels.

ADJUSTMENT AND CONFIRMATION PROCEDURES 3

FL tube

Press and hold down CD button, then press STANDBY/ON button.

After "Test - " on the FL tube is displayed, press CD button to set the unit to the test mode of FL tube.



Confirmation of voltage sensor and thermal protector

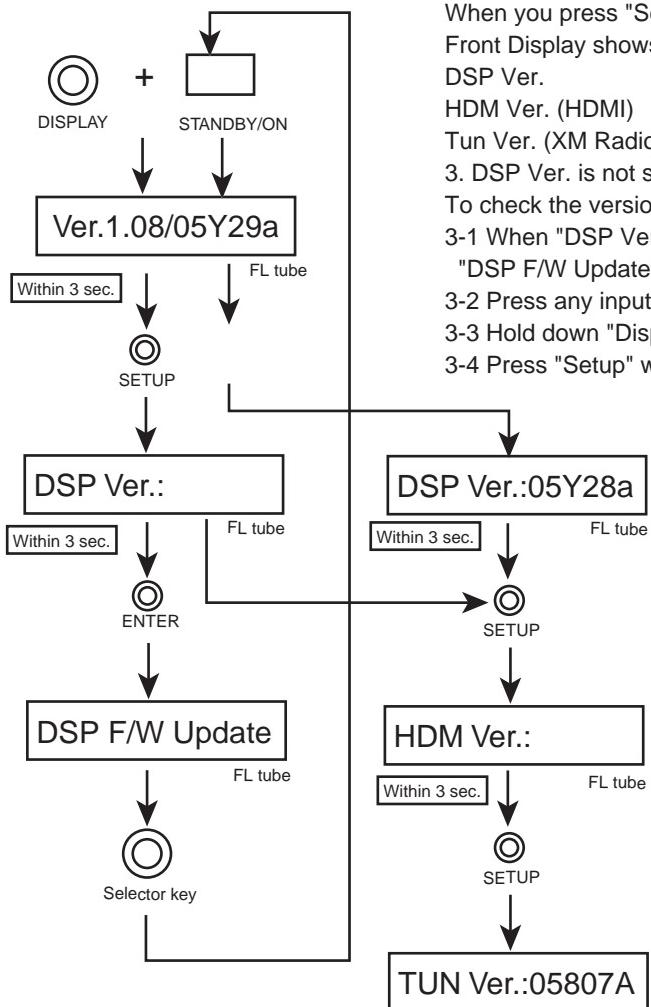
1. Set the unit to "Test- 4-36 " and "4-37".
Confirm that FM STEREO is displayed and Speaker relays RL6901 and RL6902 turn Off.
 2. Set the unit to "Test- 4-38 ".
Confirm that FM STEREO is displayed and Speaker relays RL6901 and RL6902 turn Off.

Confirmation of cooling fan

1. Confirm that the fan does not rotate when no input signal.
 2. Set the unit to "Test- 4-36 " and "4-37".
Confirm that the fan rotates at a low speed.
 3. Set the unit to "Test- 4-39 ".
Confirm that the fan rotates at a high speed.

FW UPGRADE

How to check version



1. Hold down "Display" and then press "Standby" button to show Main version.
2. Press "Setup" within 3 seconds.

When you press "Setup", another version of program is shown.

Front Display shows each version of programs in the following order:

DSP Ver.

HDM Ver. (HDMI) -- blank

Tun Ver. (XM Radio) -- blank except MDD/MDC

3. DSP Ver. is not shown easily.

To check the version of DSP FW,

- 3-1 When "DSP Ver. " is shown, press "Enter" within 3 seconds.
"DSP F/W Update" will be shown.

- 3-2 Press any input selector button to exit "DSP F/W Update".

- 3-3 Hold down "Display" and then press "Standby" button to show Main version.

- 3-4 Press "Setup" within 3 seconds.

Main FW and DSP FW

- 1) If both FWs need to be upgraded, DSP FW Upgrade should be done first.

- 2) If either of Main Board or DSP Board is replaced, certain combinations of Main-DSP FW versions do not allow you to upgrade DSP FW.

In that case, rewrite a compatible version of Main FW, upgrade DSP FW, and then upgrade Main FW.

DSP: Ver.05723a - Main: Ver. 1.04/05921a,1.06/05X06b,
DSP: Ver. 05Y28a - Main: Ver. 1.08/05Y25a

FW UPGRADE

DSP/Video FW Upgrade

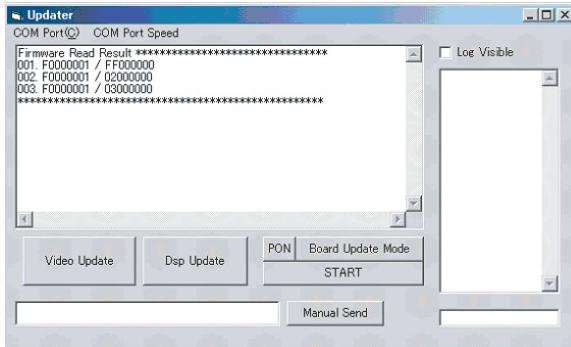
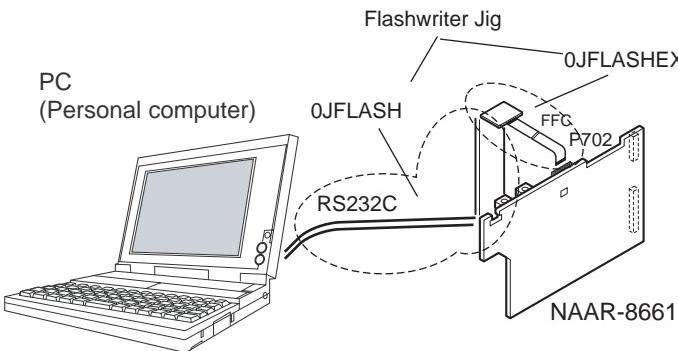
0. Unzip "firmware.zip" and store the unzipped folder & files and "Update.exe" as below.



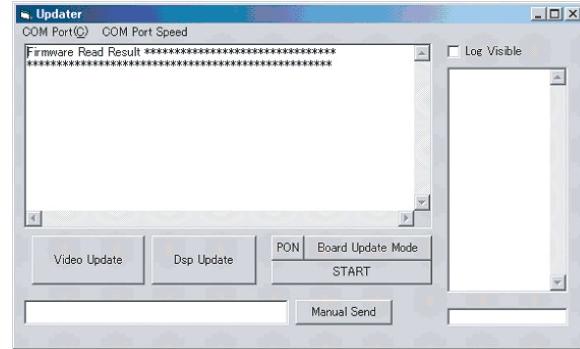
```
\Updater_SR803\Update.exe
  \firmware\SR803\fdist.fdf
  \FW803.dcf
  \DSP7803_05Y28A.s28
  \0X04B_video803.hex
```

You can name the uppermost folder "\Updater_SR803" as you like.

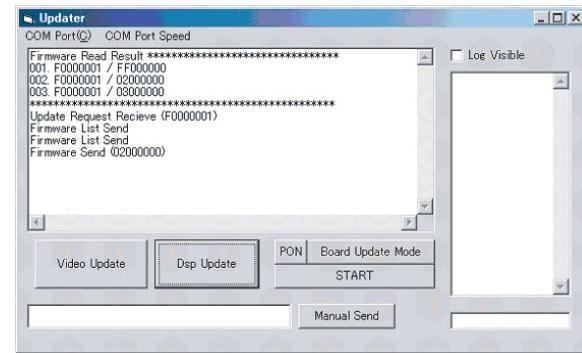
1. Hold down "Display" and then press "Standby" button to show Main version.
2. Press "Setup" within 3 seconds.
3. Press "Enter" while DSP version is shown to enter Setup mode. "DSP F/W Update" will be shown.
4. Connect your unit and PC with Flashwriter Jig and put the unit into Standby mode.
5. Double-click "Update.exe".



If you get the message like below, FW files are not properly stored. Check the path.



6. Click "DSP Updade" .
- DSP



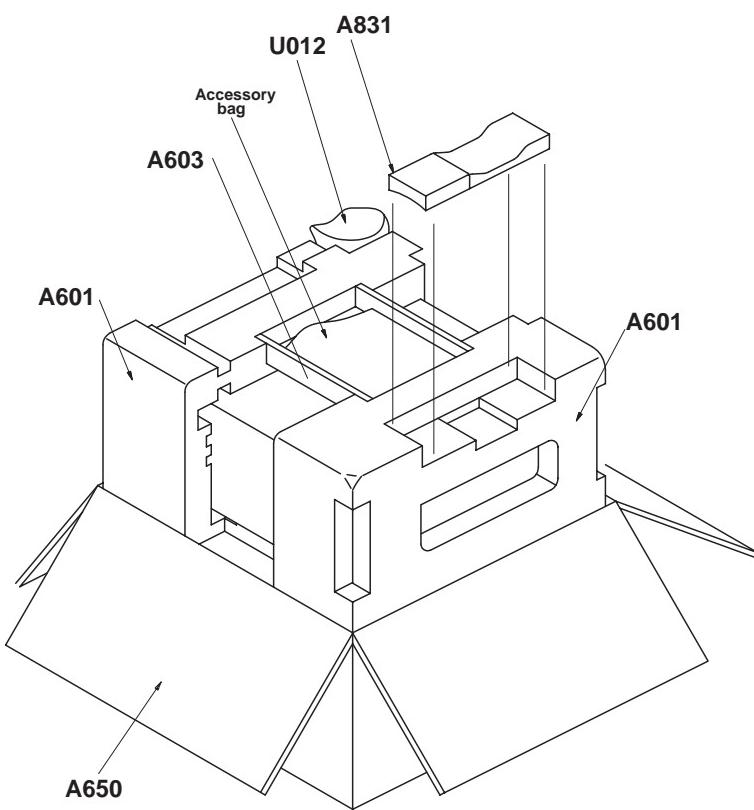
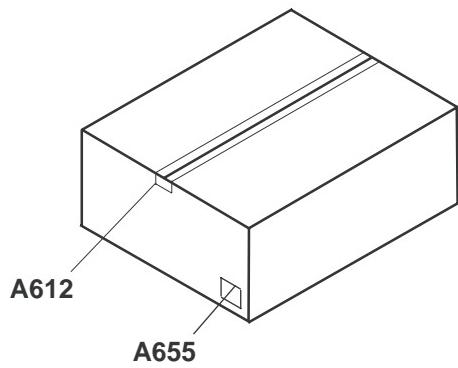
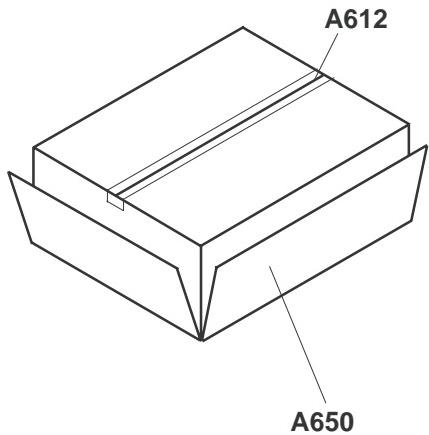
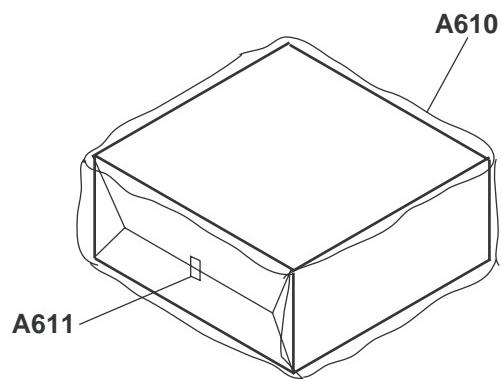
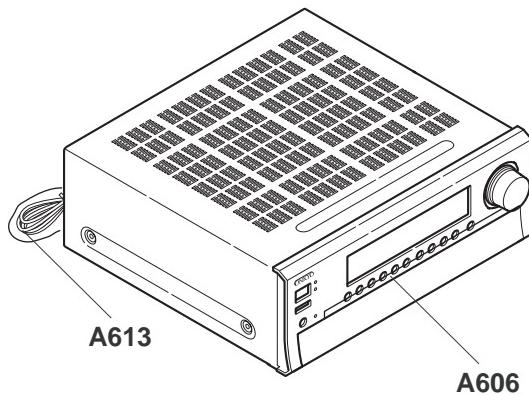
7. Update completes when Front Display stops showing the progress.

Note: Even if you try to check the DSP version, you might not be able to get it due to the wrong combination of DSP and Main. In this case, check the version after upgrading Main FW.

Main FW Upgrade

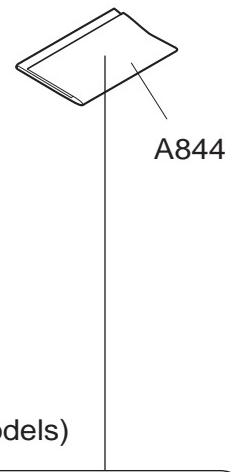
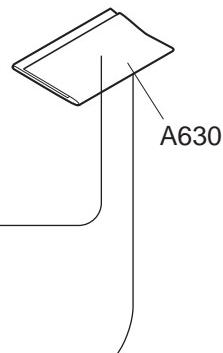
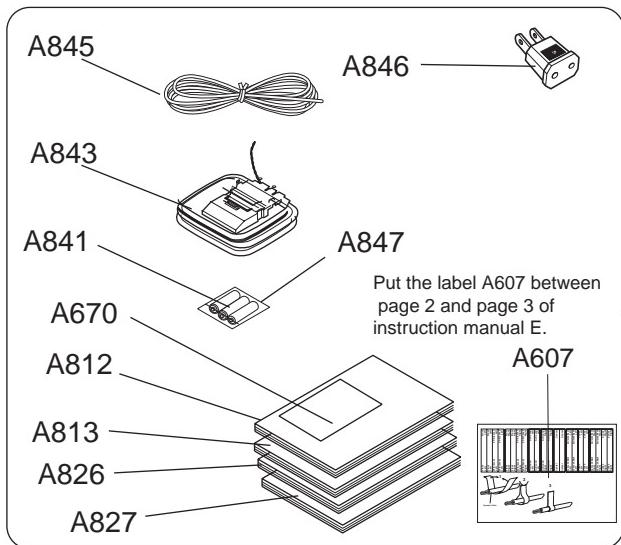
Write the latest main program using FlashSta.exe.

PACKING VIEW 1

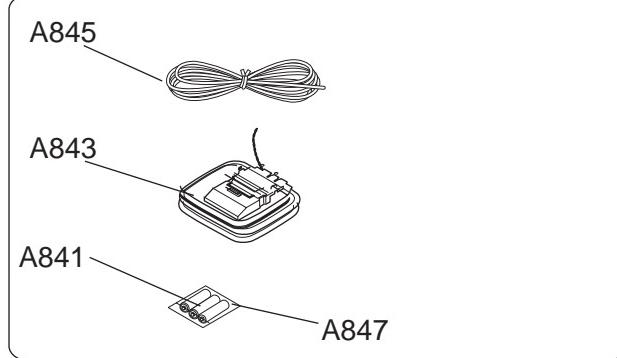


PACKING VIEW 2

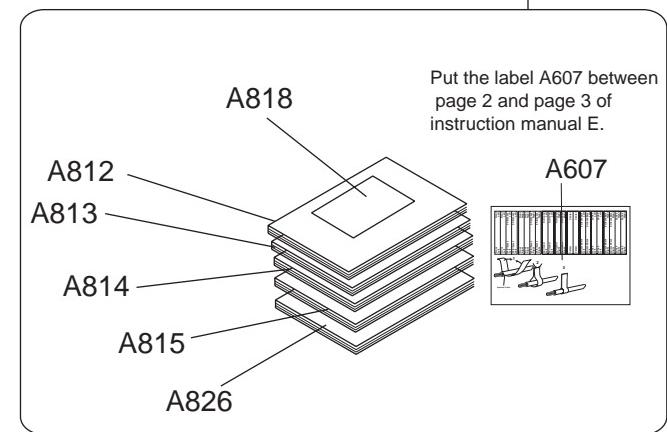
Accessory bag (Other models)



Accessory bag (European models)



Printed matters (European models)



EXPLODED VIEW-PARTS LIST

NOTE: THE COMPONENTS IDENTIFIED BY MARK !
 ARE CRITICAL FOR RISK OF FIRE AND
 ELECTRIC SHOCK. REPLACE ONLY WITH
 PART NUMBER SPECIFIED.

CAUTION: Replacement for transistor of mark *, if necessary
 must be made from the same beta group (hFE) as
 the original type.

NOTE: : Black model only <G>: Golden model only <S>: Silver model only
 <D>: USA model only <P>: European model only <A>: Australian model only
 <T>: Worldwide model only <R>: Chinese model only <C>: Canadian model only
 <K>: Korean model only <Q>: Hongkong model only
 <NSP>: No spare part

REF.NO.	PART NO.	DESCRIPTION
A001	27111421B	Front bracket
	27111422B	Front bracket <S>
	27111423B	Front bracket <G>
A002	27191153B	Holder, Jack
A003	801618	3TTB+8B(CU)SR,Screw
A005	28200006	Facet, volume
A009	28192074	Clear plate
	28192075	Clear plate <S/G>
A010	27215374	Decorative frame
	27215375	Decorative frame <S>
	27215376	Decorative frame <G>
A011	28198905	Facet
A019	28135244	Badge
	28135245	Badge <G>
	28135298	Badge <S>
A020	28141562	t5*30*5,Cushion
A022	27230047	091Y,Push latch
A023	27191173	Holder L
	27191174	Holder L <S/G>
A025	27191175	Holder R
	27191176	Holder R <S/G>
A027	28180156	Hinge L
	28180157	Hinge L <S/G>
A029	28180158	Hinge R
	28180159	Hinge R <S/G>
A030	27301947	B20B, Damper
A031	27301946	Gear
A032	27141828A	Retainer B
A033	831430088GR	3TTW+8B(3BC),Screw
A035	801433GR	3SMS8W.SW+14B(BC),Screw
A036	2061112100UL	TCW21,Cord As
A037	838430088GR	3TTB+8B(3BC),Screw
A038	838120088GR	2TTB+8B(3CM),Screw
A039	28141511	t1.0*5*5,Cushion
A040	28326232	Knob, volume
	28326234	Knob, volume <G>
	28326436	Knob, volume <S>
A044	28141637	Cushion
A050	27100468A	NSP Chassis
A051	27130991A	
A052	27190470	KGLS-18S,Holder
A053	27190524	KGLS-14RT,Holder
A054	27190991	Holder
A055	260208	BSK-1,Wire tie
A056	830440089GR	4TTC+8C(3BC),Screw
A057	801618	3TTB+8B(CU)SR,Screw
A059	27190802	KGPS-14RF,Holder
A060	27130990	Bracket, fan
A062	838450108GR	5TTB+10B(3BC),Screw
A063	27270439	Spacer
A064	27190608-1	Holder, clamer
A065	27270147	8X3X0.188,Spacer
A077	801612	3TTB+8B(CU),Screw
A080	27160565A	Heat sink
A081	29110083	Tape, cloth

A082	801606	3SMH10W.SW+15B(CU),Screw
A087	27130745	Bracket
A089	28141585	W15*3t,Cushion
A090	27150507	Shield plate FFC
A092	801612	3TTB+8B(CU),Screw
A095	28184952	Top cover
	28184953	Top cover <S>
	28184954	Top cover <G>
A096	28141563	t3*50*10,Cushion
A099	29364123	Label, cover
A100	838240089	4TTB+8C(NI),Screw <S/G>
	838440089GR	4TTB+8C(3BC),Screw
A101	838430088GR	3TTB+8B(3BC),Screw
	838930088GR	3TTB+8B(UN),Screw <S/G>
A105	801618	3TTB+8B(CU)SR,Screw
A110	29363379-1	Label PT
A111	27175418	Leg
A114	838430088GR	3TTB+8B(3BC),Screw
A115	27255004	CS-1U,Clip
A119	28141647	Cushion
A401	27123469	Rear panel <D/C>
	27123470	Rear panel <P>
	27123471	Rear panel <K>
	27123472	Rear panel <T>
	27123473	Rear panel <R>
	27123474	Rear panel <A>
	27123475	Rear panel <Q>
A402	838430088GR	3TTB+8B(3BC),Screw
A403	87643010GR	W3*10F(3BC),Washer
A404	838930088GR	3TTB+8B(UN),Screw
A405	27300750	#2271,Bushing <D/C/P/A/R/K>
	27301927	Bushing <Q/T>
A406	27191130	Holder, outlet <R>
A409	27270463	T0.5*Φ8*Φ3.5,Spacer
A410	27212820	Front panel <D/C/A>
	27212834	Front panel <P>
	27212835	Front panel <S> <C/A>
	27212836	Front panel <S> <P>
	27212837	Front panel <G>
A411	28148623	Door <D>
	28148624	Door <P>
	28148625	Door <S> <C>
	28148626	Door <S> <P>
	28148627	Door <G>
	28148632	Door <A>
	28148633	Door <S> <A>
A412	27262749	Plate, door <D/C/A>
	27262750	Plate, door <S> <C/A>
	27262751	Plate, door <G>
	27262753	Plate, door <P>
	27262754	Plate, door <S> <P>
A416	801618	3TTB+8B(CU)SR,Screw <P/Q/R/K/T>
A417	82143010GR	3P+10FN(3BC),Screw <P/Q/R/K/T>
A418	28326340	Knob, power <S> <P>
	28325497A	Knob, power <P>
	28325499A	Knob, power <G>
A420	29363194	Labl HOOKUP <D>
F6901,F6902	252301GR	! 12A-TUL-250V,Fuse
F901	252079GR	! 6.3A-SE-EAK,Fuse <P/A/Q/R/K>
	252330GR	! 10A-UL/T-233, Fuse <D/C>
F902	252079GR	! 6.3A-SE-EAK Fuse <T>
F903	252075GR	! 2.5A-SE-EAK,Fuse <P/A/Q/R/K>
	252326GR	! 5A-UL/T-233,Fuse <D/C>
F931,F932	252073GR	! 1.6A-SE-EAK,Fuse
F951,F952	252079GR	! 6.3A-SE-EAK,Fuse
P691	24502319	D09A-12PG(EX),Fan
P701	2047131012	NCFC7-131012,FFC
P7534	2045405012	NCFC5-405012,FFC
P901	253368LTK or	! AS-UC-2 or
	253333VOL	! AS-UC-2, Power supply cord <D/C>

	253388LTK or	!	AS-SAA or
	253388FJK or	!	AS-SAA or
	253388HIT or	!	AS-SAA or
	253388LON	!	AS-SAA, Power supply cord <A>
	253374LTK or	!	AS-CEE-2 or
	253233KAW or	!	AS-CEE-2 or
	253306VOL	!	AS-CEE-2,Power supply cord <P>
	253198LTK or	!	AS-BS or
	253198VOL	!	AS-BS,Power supply cord <Q>
	253355VOL or	!	AS-CCC or
	253377LTK	!	AS-CCC,Power supply cord <R>
	253406VOL	!	AS-KS,Power supply cord <K>
	253348VOL	!	AS-CEE-3,Power supply cord <T>
P921	25052665		NSCT-2P2561,AC outlet <K>
Q6050,Q6051,Q6052	2203686 or	*	MN150S-P or
Q6053,Q6054,Q6055	2203683 or	*	MN150S-O or
Q6056	2203684	*	MN150S-Y,Transistor
Q6050A	223024		AC238,Isolated sheet
Q6060,Q6061,Q6062	2203696 or	*	MP150S-P or
Q6063,Q6064,Q6065	2203693 or	*	MP150S-O or
Q6066	2203694	*	MP150S-Y, Transistor
T901	2301830	!	NPT-1526D,Power transformer <D/C>
	2301831	!	NPT-1526P,Power transformer <A/P>
	2301832	!	NPT-1526DQ,Power transformer <T>
	2301833	!	NPT-1526G,Power transformer <Q/R/K>
U02	1B104557-1A		NAVD-8657-1A, Video circuit PC board ass'y <D/C>
	1B104557-1B		NAVD-8657-1B, Video circuit PC board ass'y <P/A/Q/R/K/T>
U03	1B104560-1G		NADG-8660-1G, DSP circuit PC board ass'y <D/C>
	1B104560-1H		NADG-8660-1H, DSP circuit PC board ass'y <A>
	1B104560-1J		NADG-8660-1J, DSP circuit PC board ass'y <Q/R/K>
	1B104560-1K		NADG-8660-1K, DSP circuit PC board ass'y <P>
	1B104560-1N		NADG-8660-1N, DSP circuit PC board ass'y <T>
U032	1B104561-1G		NAAR-8661-1G,Main micropocessor PC board ass'y <D/C>
	1B104561-1H		NAAR-8661-1H,Main micropocessor PC board ass'y <A>
	1B104561-1J		NAAR-8661-1J,Main micropocessor PC board ass'y <Q/R/K>
	1B104561-1K		NAAR-8661-1K,Main micropocessor PC board ass'y <P>
	1B104561-1N		NAAR-8661-1N,Main micropocessor PC board ass'y <T>
U033	1B104562-1G		NAETC-8662-1G, Front video PC board ass'y <D/C>
	1B104562-1H		NAETC-8662-1H, Front video PC board ass'y <A>
	1B104562-1J		NAETC-8662-1J, Front video PC board ass'y <Q/R/K>
	1B104562-1K		NAETC-8662-1K, Front video PC board ass'y <P>
	1B104562-1N		NAETC-8662-1N, Front video PC board ass'y <T>
U034	1B104563-1G		NAETC-8663-1G, Holder PC board ass'y <D/C>
	1B104563-1H		NAETC-8663-1H, Holder PC board ass'y <A>
	1B104563-1J		NAETC-8663-1J, Holder PC board ass'y <Q/R/K>
	1B104563-1K		NAETC-8663-1K, Holder PC board ass'y <P>
	1B104563-1N		NAETC-8663-1N, Holder PC board ass'y <T>
U04	1B104564-1J		NAPS-8664-1J, Primary circuit PC board ass'y <D/C>
	1B104564-1K		NAPS-8664-1K, Primary circuit PC board ass'y <A>
	1B104564-1L		NAPS-8664-1L, Primary circuit PC board ass'y <T>
	1B104564-1M		NAPS-8664-1M, Primary circuit PC board ass'y <K>
	1B104564-1N		NAPS-8664-1N, Primary circuit PC board ass'y <R>
	1B104564-1P		NAPS-8664-1P, Primary circuit PC board ass'y <P/Q>
U042	1B104565-1J		NAPS-8665-1J, Secondary circuit PC board ass'y <D/C>
	1B104565-1K		NAPS-8665-1K, Secondary circuit PC board ass'y <A>
	1B104565-1L		NAPS-8665-1L, Secondary circuit PC board ass'y <T>
	1B104565-1M		NAPS-8665-1M, Secondary circuit PC board ass'y <K>
	1B104565-1N		NAPS-8665-1N, Secondary circuit PC board ass'y <R>
	1B104565-1P		NAPS-8665-1P, Secondary circuit PC board ass'y <P/Q>
U043	1B104566-1J		NAETC-8666-1J, Speaker terminal PC board ass'y <D/C>
	1B104566-1K		NAETC-8666-1K, Speaker terminal PC board ass'y <A>
	1B104566-1L		NAETC-8666-1L, Speaker terminal PC board ass'y <T>
	1B104566-1M		NAETC-8666-1M, Speaker terminal PC board ass'y <K>
	1B104566-1N		NAETC-8666-1N, Speaker terminal PC board ass'y <R>
	1B104566-1P		NAETC-8666-1P, Speaker terminal PC board ass'y <P/Q>
U044	1B104567-1J		NAETC-8667-1J, Speaker terminal C PC board ass'y <D/C>
	1B104567-1K		NAETC-8667-1K, Speaker terminal C PC board ass'y <A>
	1B104567-1L		NAETC-8667-1L, Speaker terminal C PC board ass'y <T>
	1B104567-1M		NAETC-8667-1M, Speaker terminal C PC board ass'y <K>
	1B104567-1N		NAETC-8667-1N, Speaker terminal C PC board ass'y <R>

U045	1B104567-1P 1B104568-1J 1B104568-1K 1B104568-1L 1B104568-1M 1B104568-1N 1B104568-1P	NAETC-8667-1P, Speaker terminal C PC board ass'y <P/Q> NAAF-8668-1J, Driver circuit PC board ass'y <D/C> NAAF-8668-1K, Driver circuit PC board ass'y <A> NAAF-8668-1L, Driver circuit PC board ass'y <T> NAAF-8668-1M, Driver circuit PC board ass'y <K> NAAF-8668-1N, Driver circuit PC board ass'y <R> NAAF-8668-1P, Driver circuit PC board ass'y <P/Q>
U046	1B104569-1L 1B104569-1M 1B104569-1N 1B104569-1P	NASW-8669-1L, Power switch PC board ass'y <T> NASW-8669-1M, Power switch PC board ass'y <K> NASW-8669-1N, Power switch PC board ass'y <R> NASW-8669-1P, Power switch PC board ass'y <P/Q>
U047	1B104570-1L 1B104570-1M 1B104570-1N 1B104570-1P	NAETC-8670-1L, Holder PC board ass'y <T> NAETC-8670-1M, Holder PC board ass'y <K> NAETC-8670-1N, Holder PC board ass'y <R> NAETC-8670-1P, Holder PC board ass'y <P/Q>
U049	1B104572-1M	NAETC-8672-1M, AC outlet PC board ass'y <K>
U05	1B104575-1D	NADIS-8675-1D, Display circuit PC board ass'y
U052	1B104576-1D	NAETC-8676-1D, Headphone terminal PC board ass'y
U053	1B104577-1D	NAETC-8677-1D, Volume PC board ass'y
U06	1B104578-1D	NAAF-8678-1D, Amplifier PC board ass'y
U062	1B104580-1D	NAETC-8680-1D, Thermal detector PC board ass'y
U063	1B104581-1D	NAETC-8681-1D, Holder PC board ass'y
U064	1B104582-1D	NAAF-8682-1D, Surround back amplifier PC board ass'y
U08	1B104588-1A	NARF-8688-1A, XM radio PC board ass'y
U11	240152 or 240156 240154 240155	FAE385-A11US or ENG06507QFUS, FM/AM tuner <D/C> FAE485-E11EU, FM/AM tuner <P> FAE485-E12EX, FM/AM tuner <A/Q/R/K/T>

PACKING VIEW-PARTS LIST

REF. NO.	PART NO.	DESCRIPTION
A601	29092286A	Pad
A603	29054470	Carton
A606	29095906	Sheet
A607	29363059A	Label, speaker cable
A610	29100153	1020x770, Polybag
A611	29110149	Tape, cellophane
A612	29110148	Tape PP
A613	29100238	T0.05*650*100, Polybag
A630	29100097-1A	350*250, Polybag
A650	29054426	Carton box <A>
	29054427	Carton box <S> <A>
	29054428	Carton box <G> <Q/K/T>
	29054429	Carton box <P>
	29054430	Carton box <S> <P>
	29054454	Carton box <D/C>
	29054455	Carton box <S> <C>
	29054457	Carton box <G> <R>
A651	29363243	Label <C>
A655	29364220	Label EAN <A>
	29364221	Label EAN <S> <A>
	29364222	Label EAN <G>
	29364223	Label EAN <P>
	29364224	Label EAN <S> <P>
	29364226	Label UPC <D/C>
	29364227	Label UPC <S> <C>
A670	29365090C	Warranty card <D/C>
	29365099	Warranty card <Q>
	29365098A	Warranty card <R>
A675	29380140	Leaflet DS-A1<D/C>
	29380141	Leaflet DS-A1<P>
A812	29344073	Instruction manual En
A813	29344074	Instruction manual U2FrEs <P/C>
	29344077	Instruction manual Cs <R>
	29344078	Instruction manual Ct <Q/T>
	29344079	Instruction Manual En-DIG <D>
A814	29344075	Instruction manual U2ltDe <P>
A815	29344076	Instruction manual U2NISv <P>
A818	29355537	Instruction sheet WEEE <P>
A826	29344100	Instruction manual U9

A827	29355538	Instruction sheet XM <D/C>
A831	24140620	RC-620M,Remote controller
A841	3010358	LR6/AA(UM-3),Battery
A843	232140	NMA-3057,AM loop antenna
A844	29100097-1A	350*250,Polybag for printed matter <P>
A845	292191	FM antenna
A846	25056005	CV-K-1,Conversion plug <T>
A847	29100217	t0.1*70*100,Polybag
U012	1B068MIC	MIC-5000,Setup microphone

PRINTED CIRCUIT BOARD-PARTS LIST

NOTE: THE COMPONENTS IDENTIFIED BY MARK !
 ARE CRITICAL FOR RISK OF FIRE AND
 ELECTRIC SHOCK. REPLACE ONLY WITH
 PART NUMBER SPECIFIED.

CAUTION: Replacement for transistor of mark *, if necessary
 must be made from the same beta group (hFE) as
 the original type.

NOTE:<D>: USA/Canadian models only <P>: European model only <A>:Australian model only
 <T>: Worldwide model only <R>: Chinese model only
 <K>:Korean model only <Q>:Hongkong model only

VIDEO CIRCUIT PC BOARD (NAVD-8657-1A/1B)				
CIRCUIT NO.	PART NAME	DESCRIPTION	PART NO.	REMARKS
Q2001,Q2002,Q2003	IC	NJM2595M	22241946R2	
Q2004	IC	LC74763-9836	22241779	
Q2101	IC	ADV7183B	22242202R3	
Q2102	IC(REGULATOR)	TA48033AF(TE16L、NQ) or	22278033DR2T or	
	IC(REGULATOR)	BA33BC0FP	22278033DR2RH	
Q2103	IC(REGULATOR)	TA48018AF(TE16L、NQ) or	22278018DR2T or	
	IC(REGULATOR)	BA18BC0FP	22278018DR2RH	
Q2104	IC	ADV7172	22242155R3	
Q2106,Q2107	IC	LA7106MFP	22241465R2	
Q2111	IC	NJU7313AM	22242211R2	
Q2005,Q2201,Q2202	TR	KTC3875-GR or	2216175R2 or	
	TR	2SC2712-GR	2213145R2	
Q2006,Q2007,Q2012	TR	RN1443 or	2215510R2 or	
Q2013,Q2017,Q2018	TR	KRC286S	2217250R2	
Q2008,Q2009,Q2022	TR	KTA1504-GR or	2216185R2 or	
	TR	2SA1162-GR	2214375R2	
Q2010	TR	KRA102S or	2216220R2 or	
	TR	RN2402 or	2214530R2 or	
	TR	UNR2111	2217110R2	
Q2020,Q2023,Q2024	TR	RN1443 or	2215510R2 or	
Q2025	TR	KRC286S	2217250R2	
Q2051,Q2052,Q2053	TR	KRC101S or	2216330R2 or	
Q2054,Q2105	TR	RN1401	2214460R2	
Q2108,Q2109	TR	2SK3019	2216520R2	
D2001,D2002	C-DIODE	KDS4148U or	223283R2 or	
D2003,D2201	C-DIODE	1SS352 or	223234R2 or	
D2202	C-DIODE	1SS355 or	223269R2 or	
	C-DIODE	MA2J111	223279R2	
X2001	CRYSTAL	HC-49/U0314.318M	3010363	
X2002	CRYSTAL	HC-49/U0317.734M	3010364	<A/K/P/R/Q/T>
X2101	CRYSTAL	FCX-03-28.6363MHz	3010408R2	
L2001	CHOKE COIL	NCH-1572	231292J056R2	
L2002,L2007	CHOKE COIL	NCH-1471 or	231237K022R2 or	
L2101,L2104,L2105	CHOKE COIL	NCH-1587-022K	233533K022R2	
L2102,L2103	CHOKE COIL	NCH-1477	231237K220R2	
C2001,C2002,C2003	C-CERA C	CK725B1H-102K1	332101025R1	
C2004,C2005,C2007	VR C	CE04W50V-10M(VR)	394681007	
C2006,C2009,C2015	C-CERA C	CK725F1E-104Z1	332161040R1	
C2008,C2013,C2014	VR C	CE04W50V-10M(VR)	394681007	
C2010,C2011,C2012	C-CERA C	CC725CH1H-470J1	342104704R1	
C2016,C2017,C2018	C-CERA C	CC725CH1H-470J1	342104704R1	
C2019,C2020,C2091	VR C	CE04W50V-10M(VR)	394681007	
C2021,C2022,C2025	C-CERA C	CK725F1E-104Z1	332161040R1	
C2023,C2024,C2027	VR C	CE04W16V-100M(VR)	394641017	
C2026,C2029,C2030	C-CERA C	CK725F1E-104Z1	332161040R1	
C2028,C2031,C2032	VR C	CE04W16V-100M(VR)	394641017	
C2033,C2052,C2066	C-CERA C	CK725F1E-104Z1	332161040R1	
C2041	C-CERA C	CC725CH1H-100D1	342101002R1	
C2042	C-CERA C	CC725CH1H-180J1	342101804R1	
C2043	C-CERA C	CC725CH1H-180J1	342101804R1	<A/K/P/R/Q/T>
C2044	C-CERA C	CC725CH1H-080D1	342100802R1	<A/K/P/R/Q/T>
C2045,C2046,C2047	C-CERA C	CC725CH1H-470J1	342104704R1	
C2048,C2050	C-CERA C	CC725CH1H-470J1	342104704R1	

C2049,C2057	VR C	CE04W50V-1M(VR)	394680107	
C2051,C2073,C2078	VR C	CE04W10V-470M(VR)	394634717	
C2053,C2065,C2177	VR C	CE04W16V-100M(VR)	394641017	
C2054	VR C	CE04W50V-0.33M(VR)	394683397	
C2055	C-CERA C	CK725B1H-122K1	332101225R1	
C2056	TF C	ECQ-B50V-682J	374726824	
C2058	TF C	ECQ-B50V-223J	374722234	
C2059	C-CERA C	CC725CH1H-220J1	342102204R1	
C2060	C-CERA C	CC725CH1H-270J1	342102704R1	
C2061	VR C	CE04W50V-0.47M(VR)	394684797	
C2063	TF C	ECQ-V50V-334J	374723344	
C2067,C2068,C2071	C-CERA C	CK725F1E-104Z1	332161040R1	
C2072,C2090,C2101	C-CERA C	CK725F1E-104Z1	332161040R1	
C2092	VR C	CE04W50V-10M(VR)	394681007	
C2102,C2136	VR C	CE04W10V-470M(VR)	394634717	
C2103,C2105,C2106	C-CERA C	CK725F1E-104Z1	332161040R1	
C2104,C2112,C2115	CHIP TANTAL	F93-16V-10M or	395541007R2 or	
C2107,C2108,C2109	C-CERA C	CK725F1E-104Z1	332161040R1	
C2110,C2124	C-CERA C	CK725B1H-103K1	332101035R1	
C2111,C2113,C2114	C-CERA C	CK725F1E-104Z1	332161040R1	
C2116,C2118,C2120	C-CERA C	CK725F1E-104Z1	332161040R1	
C2117,C2119,C2164	CHIP TANTAL	TCFGA-1C106M8R	396041007R2	
C2121,C2122	C-CERA C	CK725B1H-102K1	332101025R1	
C2123,C2125,C2126	C-CERA C	CK725F1E-104Z1	332161040R1	
C2128,C2129	C-CERA C	CC725CH1H-080D1	342100802R1	
C2130,C2134,C2137	C-CERA C	CK725F1E-104Z1	332161040R1	
C2131,C2135	C-CERA C	CK725B1H-103K1	332101035R1	
C2132	C-FILM C	ECHU16V-823J	373048234R2	
C2133	C-FILM C	ECHU16V-103J	373041034R2	
C2141,C2142,C2161	C-CERA C	CK725F1E-104Z1	332161040R1	
C2162,C2163,C2178	C-CERA C	CK725F1E-104Z1	332161040R1	
C2171,C2172,C2173	C-CERA C	CK732B1A-105K	337361055R2	
C2174,C2175,C2176	C-CERA C	CK732B1A-105K	337361055R2	
C2179,C2182,C2183	C-CERA C	CK725F1E-104Z1	332161040R1	
C2180,C2181,C2184	VR C	CE04W16V-100M(VR)	394641017	
C2185,C2186,C2188	C-CERA C	CK725F1E-104Z1	332161040R1	
C2189	C-CERA C	CK725F1E-104Z1	332161040R1	
C2201,C2002	C-CERA C	CK725B1H-102K1	332101025R1	
R2001,R2002,R2003	C-CARBON R	RN72K1J-103JE	435031034R1	
R2004,R2005,R2006	C-CARBON R	RN72K1J-750JE	435037504R1	
R2007,R2008,R2009	C-CARBON R	RN72K1J-750JE	435037504R1	
R2010,R2011,R2012	C-CARBON R	RN72K1J-750JE	435037504R1	
R2013,R2014,R2015	C-CARBON R	RN72K1J-750JE	435037504R1	
R2016,R2017,R2018	C-CARBON R	RN72K1J-750JE	435037504R1	
R2019,R2020,R2021	C-CARBON R	RN72K1J-750JE	435037504R1	
R2041,R2042,R2043	C-CARBON R	RN72K1J-222JE	435032224R1	
R2044,R2064,R2110	C-CARBON R	RN72K1J-222JE	435032224R1	
R2045,R2065,R2091	C-CARBON R	RN72K1J-103JE	435031034R1	
R2046,R2055,R2101	C-CARBON R	RN72K1J-102JE	435031024R1	
R2047,R2057	C-CARBON R	RN72K1J-473JE	435034734R1	
R2048,R2053	C-CARBON R	RN72K1J-682JE	435036824R1	
R2049	C-CARBON R	RN72K1J-332JE	435033324R1	
R2050,R2058,R2059	C-CARBON R	RN72K1J-221JE	435032214R1	
R2051	C-CARBON R	RN72K1J-824JE	435038244R1	
R2052	C-CARBON R	RN72K1J-152JE	435031524R1	
R2054,R2094,R2095	C-CARBON R	RN72K1J-121JE	435031214R1	
R2056,R2061	C-CARBON R	RN72K1J-272JE	435032724R1	
R2060	C-CARBON R	RN72K1J-123JE	435031234R1	
R2062	C-CARBON R	RN72K1J-333JE	435033334R1	
R2063	C-CARBON R	RN72K1J-680JE	435036804R1	
R2066,R2067	C-CARBON R	RN72K1J-221JE	435032214R1	
R2070	C-CARBON R	RN72K1J-220JE	435032204R1	
R2071,R2072,R2073	C-CARBON R	RN72K1J-104JE	435031044R1	
R2074,R2075,R2076	C-CARBON R	RN72K1J-104JE	435031044R1	
R2077,R2078,R2079	C-CARBON R	RN72K1J-104JE	435031044R1	
R2080,R2081,R2082	C-CARBON R	RN72K1J-104JE	435031044R1	

R2083,R2084,R2085	C-CARBON R	RN72K1J-104JE	435031044R1	
R2086,R2162,R2164	C-CARBON R	RN72K1J-104JE	435031044R1	
R2087	C-CARBON R	RN72K1J-331JE	435033314R1	
R2088	C-CARBON R	RN72K1J-750JE	435037504R1	
R2089	C-CARBON R	RN72K1J-082JE	435030824R1	
R2090	C-CARBON R	RN72K1J-022JE	435030224R1	
R2092,R2097	C-CARBON R	RN72K1J-471JE	435034714R1	
R2093,R2098	C-CARBON R	RN72K1J-820JE	435038204R1	
R2096	C-CARBON R	RN72K1J-103JE	435031034R1	
R2102,R2103,R2104	C-CARBON R	RN72K1J-102JE	435031024R1	
R2105,R2106,R2107	C-CARBON R	RN72K1J-102JE	435031024R1	
R2108,R2115,R2204	C-CARBON R	RN72K1J-102JE	435031024R1	
R2109,R2111,R2112	C-CARBON R	RN72K1J-101JE	435031014R1	
R2113	C-CARBON R	RN72K1J-222JE	435032224R1	
R2114,R2130,R2131	C-CARBON R	RN72K1J-472JE	435034724R1	
R2116	C-CARBON R	RN72K1J-681JE	435036814R1	
R2121,R2122,R2123	C-CARBON R	RN72K1J-330JE	435033304R1	
R2124,R2125,R2126	C-CARBON R	RN72K1J-330JE	435033304R1	
R2127,R2128,R2129	C-CARBON R	RN72K1J-330JE	435033304R1	
R2132,R2133,R2143	C-CARBON R	RN72K1J-101JE	435031014R1	
R2134,R2135	C-CARBON R	RN72K1J-122JE	435031224R1	
R2141,R2142	C-CARBON R	RN72K1J-122JE	435031224R1	
R2144	C-CARBON R	RN72K1J-330JE	435033304R1	
R2145	C-CARBON R	RN72K1J-472JE	435034724R1	
R2161,R2163,R2165	C-CARBON R	RN72K1J-101JE	435031014R1	
R2166,R2168	C-CARBON R	RN72K1J-104JE	435031044R1	
R2167,R2169,R2171	C-CARBON R	RN72K1J-101JE	435031014R1	
R2170,R2172	C-CARBON R	RN72K1J-104JE	435031044R1	
R2173,R2174	C-CARBON R	RN72K1J-101JE	435031014R1	
R2175	C-CARBON R	RN72K1J-180JE	435031804R1	
R2176,R2177,R2178	C-CARBON R	RN72K1J-820JE	435038204R1	
R2179,R2180	C-CARBON R	RN72K1J-391JE	435033914R1	
R2181,R2182,R2183	C-CARBON R	RN72K1J-820JE	435038204R1	
R2184,R2185,R2186	C-CARBON R	RN72K1J-820JE	435038204R1	
R2187,R2188,R2189	C-CARBON R	RN72K1J-680JE	435036804R1	
R2190,R2191,R2192	C-CARBON R	RN72K1J-680JE	435036804R1	
R2201,R2202,R2203	C-CARBON R	RN72K1J-475JE	435034754R1	
R2205	C-CARBON R	RN72K1J-102JE	435031024R1	
R2207,R2208,R2209	C-CARBON R	RN72K1J-000JE	435030004R1	
RL2201,RL2202	RELAY	NPL-2P1A-DC4.5-169 or	25065645 or	
RL2203,RL2204	RELAY	NRL-2P2A-DC4.5-173	25065658	
RL2205	RELAY	NPL-2P1A-DC4.5-169 or	25065645 or	
	RELAY	NRL-2P2A-DC4.5-173	25065658	
P2001,P2002,P2003	PIN JACK	NPJ-10PDBY621 or	25045842 or	
	PIN JACK	NPJ-10PDBY478	25045681	
P2007	PIN JACK	NPJ-5PDBY622 or	25045843	
	PIN JACK	NPJ-5PDBY479	25045682	
P2201	PIN JACK	NPJ-9PDGLRGLRGLR563 or	25045781 or	
	PIN JACK	NPJ-9PDGLR519	25045731	
P2202	PIN JACK	NPJ-3PDGLR623	25045844	
JL2006A	WIRE HOL	NSCT-5P896	25051109	
P2004A,P2005A	SOCKET	NSCT-13P2193	25052296	

DSP CIRCUIT PC BOARD (NADG-8660-1G/1H/1J/1K/1N)

MAIN MICROPROCESSOR PC BOARD (NAAR-8661-1G/1H/1J/1K/1N)

FRONT VIDEO PC BOARD (NAETC-8662-1G/1H/1J/1K/1N)

HOLDER PC BOARD (NAETC-8663-1G/1H/1J/1K/1N)

CIRCUIT NO.	PART NAME	DESCRIPTION	PART NO.	REMARKS
Q121	IC	74HCU04F or	222740046R2 or	
	IC	SN74HCU04NSR	222740046R2T1	
Q131	IC	TC7WU04FU	22240935R2	
Q191	IC(REGULATOR)	TA48033AF(TE16L, NQ) or	22278033DR2T or	
	IC(REGULATOR)	BA33BC0FP	22278033DR2RH	
Q192	IC(REGULATOR)	TA48025AF(TE16L, NQ) or	22278025DR2TO or	
	IC(REGULATOR)	BA25BC0FP	22241835R2	
Q193	IC(REGULATOR)	TA4805AF(TE16L, NQ) or	22278005DR2TO or	
	IC(REGULATOR)	NJM2391DL1-05 or	22278005DR2JR or	

	IC(REGULATOR)	MPC2905AT	22278005DR2NE	
Q201	IC	CS494003CQZ	22242039R3	
Q211	IC	EN29LV040-70TCP or	W0037R301566M100 or	
	IC	MX26LV040-70	222W0037R3	NSP
Q285	IC	IC42S16100 or	22242123R2 or	
	IC	M12L16161A-7TG	22242278R3	
Q301,Q302,Q303	IC	NE5532APSR	22242283R2	
Q331,Q341,Q351	IC	CS5340-CZ(SE-U33GX)	22242187R2	
Q361	IC	CS42528-CQZR-D	22242275R2	
Q400,Q401,Q402	IC	NE5532APSR	22242283R2	
Q403,Q410,Q411	IC	NE5532APSR	22242283R2	
Q412,Q413,Q420	IC	NE5532APSR	22242283R2	
Q421,Q422,Q423	IC	NE5532APSR	22242283R2	
Q430,Q431,Q432	IC	NE5532APSR	22242283R2	
Q433	IC	NE5532APSR	22242283R2	
Q701	IC	M30627FHPGP U5C	W0025R301550M106	
Q710	IC	XC6213B332MR	22242277R2	
Q711	IC	TC74VHCT541AFT or	22274541GR2TO or	
	IC	SN74AHCT541PWR	22274541GR2TI	
	IC	TC74VHC541FT(EKJ) or	22274541E1R2TO or	
Q713	IC	TC74VHC541FT or	22274541ER2TO or	
	IC	SN74AHC541PWR	22274541IR2TI	
Q714	IC	S-812C56AUA-C3K	22242207R2	
Q702,Q705,Q707	TR	KRC104S or	2216210R2 or	
Q709	TR	RN1404	2214490R2	
Q703,Q704,Q706	TR	KRA102S or	2216220R2 or	
Q708	TR	RN2402	2214530R2	
U101,U102,U103	PHT CP	GP1FAV51RKF5 or	24120129 or	
U104	PHT CP	TORX177L	24120127	
U105	PHT CP	GP1FAV51TKBF or	24120132 or	
	PHT CP	TOTX177L	24120126	
U7641	PHT CP	TORX177L	24120127	
	C-DIODE	KDS4148U or	223283R2 or	
D601,D602,D605,D606, D607	C-DIODE	1SS352 or	223234R2 or	
	C-DIODE	1SS355 or	223269R2 or	
	C-DIODE	MA2J111	223279R2	
	C-DIODE	KDS4148U or	223283R2 or	<T>
D603	C-DIODE	1SS352 or	223234R2 or	<T>
	C-DIODE	1SS355 or	223269R2 or	<T>
	C-DIODE	MA2J111	223279R2	<T>
D604	ZENER D	UDZS5.1B or	224550510R2 or	
	ZENER D	HZU5.1B	224660514R2	
D609,D610,D614	DIODE	RL1N4003 or	22380260 or	
	DIODE	GP104003E	22380035	
	C-DIODE	KDS4148U or	223283R2 or	
D611,D612,D613	C-DIODE	1SS352 or	223234R2 or	
	C-DIODE	1SS355 or	223269R2 or	
	C-DIODE	MA2J111	223279R2	
D615	ZENER D	UDZS4.7B or	224550470R2 or	<T>
	ZENER D	HZU4.7B	224660474R2	<T>
X131	CRYSTAL	HC-49U0312.288MHz	3010414	
X701	CERA LOCK	CSTCR6M0055-R0	3010397R2	
L101,L102,L131	CHOKE COIL	NCH-1471	231237K022R2	
L121,L122,L331	CHOKE COIL	NCH-1479	231237K470R2	
L133	EMIFIL	BK1608HS102-T	230955R2	
L204	EMIFIL	BK1608LL241-T	230959R1	
L191,L192	CHOKE COIL	NCH-1473	231237M047R2	
L201,L202,L203	CHOKE COIL	NCH-1471	231237K022R2	
L281,L285,L332	CHOKE COIL	NCH-1471	231237K022R2	
L341,L351	CHOKE COIL	NCH-1479	231237K470R2	
L342,L352,L361	CHOKE COIL	NCH-1471	231237K022R2	
L362,L366,L367	EMIFIL	BK1608LM182-T	230958R1	
L363,L364,L365	CHOKE COIL	NCH-1471	231237K022R2	
L601,L602	CHOKE COIL	NCH-1471	231237K022R2	
L603,L604	CHOKE COIL	NCH-1471	231237K022R2	
L7603,L7604,L7641	CHOKE COIL	NCH-1471	231237K022R2	

C101,C102,C218	C-CERA C	CC725CH1H-101J1	342101014R1	
C103,C104,C108	C-CERA C	CK725B1C-104K1	332121045R1	
C105,C106,C107	C-CERA C	CC725CH1H-080D1	342100802R1	
C111,C112,C113	C-CERA C	CK725F1E-104Z1	332161040R1	
C114,C115,C122	C-CERA C	CK725F1E-104Z1	332161040R1	
C116,C121	VR C	CE04W16V-100M(VR)	394641017	
C125,C146	C-CERA C	CK725B1H-102K1	332101025R1	
C131,C134	C-CERA C	CK725F1E-104Z1	332161040R1	
C132,C133	C-CERA C	CC725CH1H-120J1	342101204R1	
C201	C-CERA C	CK725F1E-104Z1	332161040R1	
C191,C193	VR C	CE04W6.3V-470M(VR)	394624717	
C192,C194,C196	VR C	CE04W16V-100M(VR)	394641017	
C195	VX C	CE04W16V-1000M(VR)	394641027	
C202,C203,C204	C-CERA C	CK725F1E-104Z1	332161040R1	
C205,C206,C208	C-CERA C	CK725F1E-104Z1	332161040R1	
C207,C210,C211	VR C	CE04W16V-100M(VR)	394641017	
C209,C212,C216	C-CERA C	CK725F1E-104Z1	332161040R1	
C213	CHIP TANTAL	CS772SB1C-2.2M	395640227R2	
C214	C SERA C	CC725CH1H-122J1	342101224R1	
C215	C-CERA C	CC725CH1H-680J1	342106804R1	
C217,C282,C286	C-CERA C	CK725F1E-104Z1	332161040R1	
C281,C285,C331	VR C	CE04W16V-100M(VR)	394641017	
C287,C288,C289	C-CERA C	CK725F1E-104Z1	332161040R1	
C290,C291,C332	C-CERA C	CK725F1E-104Z1	332161040R1	
C301,C304	VX C	CE04W50V-10M(VX)	393381007	
C302,C306,C312	C-CERA C	CC725CH1H-101J1	342101014R1	
C303,C307,C313	C-CERA C	CC732CH1H-222J	347342224R2	
C305,C308,C311	VX C	CE04W50V-10M(VX)	393381007	
C314,C315,C318	VX C	CE04W50V-10M(VX)	393381007	
C316,C322,C326	C-CERA C	CC725CH1H-101J1	342101014R1	
C317,C323,C327	C-CERA C	CC732CH1H-222J	347342224R2	
C321,C324,C325	VX C	CE04W50V-10M(VX)	393381007	
C328,C334,C344	VX C	CE04W50V-10M(VX)	393381007	
C333,C335,C337	C-CERA C	CK725F1E-104Z1	332161040R1	
C336,C338,C341	VR C	CE04W16V-100M(VR)	394641017	
C339,C342,C343	C-CERA C	CK725F1E-104Z1	332161040R1	
C345,C347,C349	C-CERA C	CK725F1E-104Z1	332161040R1	
C346,C348,C351	VR C	CE04W16V-100M(VR)	394641017	
C352,C353,C355	C-CERA C	CK725F1E-104Z1	332161040R1	
C354	VX C	CE04W50V-10M(VX)	393381007	
C356,C358,C367	VR C	CE04W16V-100M(VR)	394641017	
C357,C359,C362	C-CERA C	CK725F1E-104Z1	332161040R1	
C361,C369	VX C	CE04W6.3V-220M(VX)	393322217	
C363,C366,C368	C-CERA C	CK725F1E-104Z1	332161040R1	
C365	RFS C	CE04W25V-47M(RFS)	395954707	
C370	C-CERA C	CK725B1H-222K1	332102225R1	
C371	C-CERA C	CK725B1H-473K1	332104735R1	
C372,C383,C384	C-CERA C	CK725F1E-104Z1	332161040R1	
C373,C374,C375	C-CERA C	CC725CH1H-330J1	342103304R1	
C376,C377,C378	C-CERA C	CC725CH1H-330J1	342103304R1	
C379	C-CERA C	CC725CH1H-330J1	342103304R1	
C381	C-CARBON R	RN72K1J-000JE	435030004R1	
C380,C382	VX C	CE04W6.3V-220M(VX)	393322217	
C395,C396	TF C	ECQ-B50V-222J	374722224	
C400,C401,C402	TF C	ECQ-B50V-471J	374724714	
C403,C404,C405	TF C	ECQ-B50V-471J	374724714	
C406,C440,C441	TF C	ECQ-B50V-471J	374724714	
C407	TF C	ECQ-V50V-333J	374723334	
C410,C411,C412	TF C	ECQ-B50V-121K	374721215	
C413,C414,C415	TF C	ECQ-B50V-121K	374721215	
C416,C420,C421	TF C	ECQ-B50V-121K	374721215	
C417,C427	TF C	ECQ-B50V-153J	374721534	
C422,C423,C424	TF C	ECQ-B50V-121K	374721215	
C425,C426	TF C	ECQ-B50V-121K	374721215	
C430,C431,C432	TF C	ECQ-B50V-122J	374721224	
C433,C434,C435	TF C	ECQ-B50V-122J	374721224	

C436,C437	TF C	ECQ-B50V-122J	374721224	
C442,C443,C444	TF C	ECQ-B50V-471J	374724714	
C445,C446,C447	TF C	ECQ-B50V-471J	374724714	
C555,C556	VX C	CE04W25V-220M(VX)	393352217	
C557,C558	VX C	CE04W25V-220M(VX)	393352217	
C601,C602,C603	C-CERA C	CK725F1E-104Z1	332161040R1	
C604,C605	C-CERA C	CK725F1E-104Z1	332161040R1	
C606,C607	C-CERA C	CK725F1E-104Z1	332161040R1	
C608	C-CERA C	CK725F1E-104Z1	332161040R1	<T>
C609,C610,C611	C-CERA C	CC725CH1H-102J1	342101024R1	
C612,C613,C614	C-CERA C	CC725CH1H-102J1	342101024R1	
C615,C616,C619	C-CERA C	CC725CH1H-102J1	342101024R1	
C617	VR C	CE04W50V-4.7M(VR)	394680477	
C618,C621,C624	C-CERA C	CK725F1E-104Z1	332161040R1	
C620	C-CERA C	CC725CH1H-102J1	342101024R1	
C625,C626	C-CERA C	CC725CH1H-101J1	342101014R1	
C650,C651	VX C	CE04W50V-10M(VX)	393381007	
C701,C717	C-CERA C	CK725F1E-104Z1	332161040R1	
C702,C716,C720	VR C	CE04W16V-100M(VR)	394641017	
C705	EDL C	DX-5R5L224	3000079	
C709,C711,C713	C-CERA C	CK732B1C-474K	337394745R1	
C710,C712,C714	VR C	CE04W50V-1M(VR)	394680107	
C715	C-CERA C	CK732B1C-474K	337394745R1	
C719	C-CERA C	CK725F1E-104Z1	332161040R1	
C723,C7642	C-CERA C	CK725F1E-104Z1	332161040R1	
C724,C7641	VR C	CE04W16V-100M(VR)	394641017	
C7600,C7633,C7634	C-CERA C	CK725B1H-102K1	332101025R1	
C7631,C7632	C-CERA C	CC725CH1H-471J1	342104714R1	
C7637	C-CERA C	CK725B1H-102K1	332101025R1	
R101,R102	C-CARBON R	RN72K1J-750JE	435037504R1	
R103,R104	C-CARBON R	RN72K1J-100JE	435031004R1	
R105,R106,R110	C-CARBON R	RN72K1J-224JE	435032244R1	
R107,R108,R109	C-CARBON R	RN72K1J-103JE	435031034R1	
R111,R112,R113	C-CARBON R	RN72K1J-221JE	435032214R1	
R114,R115	C-CARBON R	RN72K1J-221JE	435032214R1	
R125	C-CARBON R	RN72K1J-331JE	435033314R1	
R131,R617	C-CARBON R	RN72K1J-105JE	435031054R1	
R133	C-CARBON R	RN72K1J-681JE	435036814R1	
R135,R151	C-CARBON R	RN72K1J-000JE	435030004R1	
R149	C-CARBON R	RN72K1J-470JE	435034704R1	
R176,R177,R178	C-CARBON R	RN72K1J-000JE	435030004R1	
R179,R180,R181	C-CARBON R	RN72K1J-000JE	435030004R1	
R193	METAL R	RNU1WCJ-4.7	453630474	
R201,R202,R203	C-CARBON R	RN72K1J-332JE	435033324R1	
R204,R206	C-CARBON R	RN72K1J-331JE	435033314R1	
R205,R209,R210	C-CARBON R	RN72K1J-103JE	435031034R1	
R207,R214,R233	C-CARBON R	RN72K1J-470JE	435034704R1	
R208,R211,R212	C-CARBON R	RN72K1J-332JE	435033324R1	
R213,R217,R218	C-CARBON R	RN72K1J-103JE	435031034R1	
R215,R216,R220	C-CARBON R	RN72K1J-332JE	435033324R1	
R219,R221,R224	C-CARBON R	RN72K1J-103JE	435031034R1	
R222,R223,R276	C-CARBON R	RN72K1J-332JE	435033324R1	
R225,R226,R227	C-CARBON R	RN72K1J-103JE	435031034R1	
R228,R229,R230	C-CARBON R	RN72K1J-103JE	435031034R1	
R231,R232,R240	C-CARBON R	RN72K1J-103JE	435031034R1	
R234,R235,R236	C-CARBON R	RN72K1J-470JE	435034704R1	
R237,R238,R239	C-CARBON R	RN72K1J-470JE	435034704R1	
R241,R242,R245	C-CARBON R	RN72K1J-103JE	435031034R1	
R243,R244,R247	C-CARBON R	RN72K1J-470JE	435034704R1	
R246,R248,R255	C-CARBON R	RN72K1J-103JE	435031034R1	
R249,R250,R251	C-CARBON R	RN72K1J-470JE	435034704R1	
R252,R253,R254	C-CARBON R	RN72K1J-470JE	435034704R1	
R256,R257,R261	C-CARBON R	RN72K1J-103JE	435031034R1	
R258,R259,R260	C-CARBON R	RN72K1J-470JE	435034704R1	
R262,R266,R267	C-CARBON R	RN72K1J-103JE	435031034R1	
R263,R270,R271	C-CARBON R	RN72K1J-331JE	435033314R1	

R264,R371,R732	C-CARBON R	RN72K1J-272JE	435032724R1	
R265,R268,R269	C-CARBON R	RN72K1J-470JE	435034704R1	
R272,R304,R305	C-CARBON R	RN72K1J-103JE	435031034R1	
R273,R274,R275	C-CARBON R	RN72K1J-331JE	435033314R1	
R277	C-CARBON R	RN72K1J-221JE	435032214R1	
R278,R301,R306	C-CARBON R	RN72K1J-331JE	435033314R1	
R281	C-CARBON R	RN72K1J-000JE	435030004R1	
R285,R331,R341	C-CARBON R	RN72K1J-470JE	435034704R1	
R291,R292,R293	C-CARBON R	RN72K1J-104JE	435031044R1	
R294,R295,R296	C-CARBON R	RN72K1J-104JE	435031044R1	
R302,R307,R312	C-CARBON R	RN72K1J-122JE	435031224R1	
R303,R308,R313	C-CARBON R	RN72K1J-152JE	435031524R1	
R309,R310,R314	C-CARBON R	RN72K1J-103JE	435031034R1	
R311,R316,R321	C-CARBON R	RN72K1J-331JE	435033314R1	
R315,R319,R320	C-CARBON R	RN72K1J-103JE	435031034R1	
R317,R322,R327	C-CARBON R	RN72K1J-122JE	435031224R1	
R318,R323,R328	C-CARBON R	RN72K1J-152JE	435031524R1	
R324,R325,R329	C-CARBON R	RN72K1J-103JE	435031034R1	
R326,R332,R334	C-CARBON R	RN72K1J-331JE	435033314R1	
R330,R333,R343	C-CARBON R	RN72K1J-103JE	435031034R1	
R335,R337,R342	C-CARBON R	RN72K1J-331JE	435033314R1	
R344,R345,R347	C-CARBON R	RN72K1J-331JE	435033314R1	
R351,R361,R362	C-CARBON R	RN72K1J-470JE	435034704R1	
R352,R354,R355	C-CARBON R	RN72K1J-331JE	435033314R1	
R353,R420,R421	C-CARBON R	RN72K1J-103JE	435031034R1	
R357,R372,R373	C-CARBON R	RN72K1J-331JE	435033314R1	
R363,R364,R365	C-CARBON R	RN72K1J-221JE	435032214R1	
R366,R367,R368	C-CARBON R	RN72K1J-221JE	435032214R1	
R374,R375,R376	C-CARBON R	RN72K1J-331JE	435033314R1	
R377,R378	C-CARBON R	RN72K1J-331JE	435033314R1	
R380	C-CARBON R	RN72K1J-331JE	435033314R1	
R381,R382,R383	C-CARBON R	RN72K1J-470JE	435034704R1	
R384,R385,R386	C-CARBON R	RN72K1J-470JE	435034704R1	
R387,R765	C-CARBON R	RN72K1J-470JE	435034704R1	
R391,R392	C-CARBON R	RN72K1J-560JE	435035604R1	
R393,R394	C-CARBON R	RN72K1J-560JE	435035604R1	
R395,R396	C-CARBON R	RN72K1J-392JE	435033924R1	
R400,R401,R402	C-CARBON R	RN72K1J-332JE	435033324R1	
R403,R404,R405	C-CARBON R	RN72K1J-332JE	435033324R1	
R406,R407,R410	C-CARBON R	RN72K1J-332JE	435033324R1	
R411,R412,R413	C-CARBON R	RN72K1J-332JE	435033324R1	
R414,R415,R416	C-CARBON R	RN72K1J-332JE	435033324R1	
R417,R447,R457	C-CARBON R	RN72K1J-332JE	435033324R1	
R422,R423,R424	C-CARBON R	RN72K1J-103JE	435031034R1	
R425,R426,R427	C-CARBON R	RN72K1J-103JE	435031034R1	
R430,R431,R432	C-CARBON R	RN72K1J-103JE	435031034R1	
R433,R434,R435	C-CARBON R	RN72K1J-103JE	435031034R1	
R436,R437,R460	C-CARBON R	RN72K1J-103JE	435031034R1	
R440,R441,R442	C-CARBON R	RN72K1J-181JE	435031814R1	
R443,R444,R445	C-CARBON R	RN72K1J-181JE	435031814R1	
R446,R450,R451	C-CARBON R	RN72K1J-181JE	435031814R1	
R452,R453,R454	C-CARBON R	RN72K1J-181JE	435031814R1	
R455,R456	C-CARBON R	RN72K1J-181JE	435031814R1	
R461,R462,R463	C-CARBON R	RN72K1J-103JE	435031034R1	
R464,R465,R466	C-CARBON R	RN72K1J-103JE	435031034R1	
R467,R470,R471	C-CARBON R	RN72K1J-103JE	435031034R1	
R472,R473,R474	C-CARBON R	RN72K1J-103JE	435031034R1	
R475,R476,R477	C-CARBON R	RN72K1J-103JE	435031034R1	
R480,R481,R482	C-CARBON R	RN72K1J-152JE	435031524R1	
R483,R484,R485	C-CARBON R	RN72K1J-152JE	435031524R1	
R486,R487,R530	C-CARBON R	RN72K1J-152JE	435031524R1	
R490,R491,R492	C-CARBON R	RN72K1J-223JE	435032234R1	
R493,R494,R495	C-CARBON R	RN72K1J-223JE	435032234R1	
R496,R497,R500	C-CARBON R	RN72K1J-223JE	435032234R1	
R501,R502,R503	C-CARBON R	RN72K1J-223JE	435032234R1	
R504,R505,R506	C-CARBON R	RN72K1J-223JE	435032234R1	

R507,R510,R511	C-CARBON R	RN72K1J-223JE	435032234R1	
R512,R513,R514	C-CARBON R	RN72K1J-223JE	435032234R1	
R515,R516,R517	C-CARBON R	RN72K1J-223JE	435032234R1	
R520,R521,R522	C-CARBON R	RN72K1J-223JE	435032234R1	
R523,R524,R525	C-CARBON R	RN72K1J-223JE	435032234R1	
R526,R527	C-CARBON R	RN72K1J-223JE	435032234R1	
R531,R532,R533	C-CARBON R	RN72K1J-152JE	435031524R1	
R534,R535,R536	C-CARBON R	RN72K1J-152JE	435031524R1	
R537,R540,R541	C-CARBON R	RN72K1J-152JE	435031524R1	
R542,R543,R544	C-CARBON R	RN72K1J-152JE	435031524R1	
R545,R546,R547	C-CARBON R	RN72K1J-152JE	435031524R1	
R791	METAL R	RNU1/2WCJ-0.47	453534794	
R555,R556	METAL O R	RS1/2WBJ-22	443522204	
R557,R558	METAL O R	RS1/2WBJ-22	443522204	
R570,R571,R572	C-CARBON R	RN72K1J-681JE	435036814R1	
R573,R574,R575	C-CARBON R	RN72K1J-681JE	435036814R1	
R576,R577,R580	C-CARBON R	RN72K1J-681JE	435036814R1	
R581,R582,R583	C-CARBON R	RN72K1J-681JE	435036814R1	
R584,R585,R586	C-CARBON R	RN72K1J-681JE	435036814R1	
R587	C-CARBON R	RN72K1J-681JE	435036814R1	
R602,R603,R604	C-CARBON R	RN72K1J-221JE	435032214R1	
R605,R606	C-CARBON R	RN72K1J-221JE	435032214R1	<D>
R607	C-CARBON R	RN72K1J-221JE	435032214R1	
R608,R609	C-CARBON R	RN72K1J-221JE	435032214R1	<D>
R610,R612,R613	C-CARBON R	RN72K1J-221JE	435032214R1	
R611,R614,R629	C-CARBON R	RN72K1J-103JE	435031034R1	
R615,R616,R618	C-CARBON R	RN72K1J-221JE	435032214R1	
R619,R620,R621	C-CARBON R	RN72K1J-221JE	435032214R1	
R622,R623,R625	C-CARBON R	RN72K1J-221JE	435032214R1	
R624	C-CARBON R	RN72K1J-473JE	435034734R1	
R632,R633,R634	C-CARBON R	RN72K1J-221JE	435032214R1	
R635,R645	C-CARBON R	RN72K1J-221JE	435032214R1	
R636,R638	C-CARBON R	RN72K1J-000JE	435030004R1	
R637,R639	C-CARBON R	RN72K1J-222JE	435032224R1	
R640,R642	C-CARBON R	RN72K1J-102JE	435031024R1	
R641,R643	C-CARBON R	RN72K1J-273JE	435032734R1	
R647,R648	C-CARBON R	RN72K1J-221JE	435032214R1	
R649,R652	C-CARBON R	RN72K1J-221JE	435032214R1	
R650,R651,R661	C-CARBON R	RN72K1J-103JE	435031034R1	
R654,R655,R656	C-CARBON R	RN72K1J-221JE	435032214R1	
R657,R658,R659	C-CARBON R	RN72K1J-221JE	435032214R1	
R662,R667	C-CARBON R	RN72K1J-221JE	435032214R1	
R668,R669	C-CARBON R	RN72K1J-221JE	435032214R1	
R670,R671,R672	C-CARBON R	RN72K1J-221JE	435032214R1	
R673,R674,R677	C-CARBON R	RN72K1J-221JE	435032214R1	
R678,R679,R680	C-CARBON R	RN72K1J-221JE	435032214R1	
R681,R682,R683	C-CARBON R	RN72K1J-221JE	435032214R1	
R684,R685,R687	C-CARBON R	RN72K1J-221JE	435032214R1	
R686,R776	C-CARBON R	RN72K1J-223JE	435032234R1	
R688,R690,R697	C-CARBON R	RN72K1J-103JE	435031034R1	
R689,R691,R692	C-CARBON R	RN72K1J-221JE	435032214R1	
R693,R699,R701	C-CARBON R	RN72K1J-221JE	435032214R1	
R694,R696	C-CARBON R	RN72K1J-102JE	435031024R1	<P>
R695,R777	C-CARBON R	RN72K1J-000JE	435030004R1	<D/K/A/R/Q/T>
R700	C-CARBON R	RN72K1J-103JE	435031034R1	<D/A/P/K>
	C-CARBON R	RN72K1J-105JE	435031054R1	<T>
R702,R716,R720	C-CARBON R	RN72K1J-221JE	435032214R1	
R704,R705,R706	C-CARBON R	RN72K1J-102JE	435031024R1	
R707,R763	C-CARBON R	RN72K1J-102JE	435031024R1	
R708,R712,R713	C-CARBON R	RN72K1J-103JE	435031034R1	
R709,R710	C-CARBON R	RN72K1J-333JE	435033334R1	
R711	C-CARBON R	RN72K1J-563JE	435035634R1	
R714	C-CARBON R	RN72K1J-103JE	435031034R1	<A/P/K/R/Q/T>
R715	C-CARBON R	RN72K1J-000JE	435030004R1	<D>
	C-CARBON R	RN72K1J-103JE	435031034R1	<P>
R721,R722,R723	C-CARBON R	RN72K1J-221JE	435032214R1	

R724,R726,R727	C-CARBON R	RN72K1J-472JE	435034724R1	
R728,R729,R730	C-CARBON R	RN72K1J-472JE	435034724R1	
R731	C-CARBON R	RN72K1J-472JE	435034724R1	
R733,R734,R735	C-CARBON R	RN72K1J-272JE	435032724R1	
R736,R737,R738	C-CARBON R	RN72K1J-103JE	435031034R1	
R739,R740,R741	C-CARBON R	RN72K1J-103JE	435031034R1	
R742,R743,R745	C-CARBON R	RN72K1J-103JE	435031034R1	
R744	C-CARBON R	RN72K1J-103JE	435031034R1	<T>
R746	C-CARBON R	RN72K1J-103JE	435031034R1	<D/K/A/R/Q/T>
R747,R748,R749	C-CARBON R	RN72K1J-103JE	435031034R1	
R751,R754,R756	C-CARBON R	RN72K1J-103JE	435031034R1	
R752	C-CARBON R	RN72K1J-224JE	435032244R1	
R753	C-CARBON R	RN72K1J-101JE	435031014R1	
R755,R757,R759	C-CARBON R	RN72K1J-222JE	435032224R1	
R758,R768	C-CARBON R	RN72K1J-103JE	435031034R1	
R760	METAL O R	RS1/2WBJ-10	443521004	<D/A/K/R/Q/T>
	METAL R	RNU1/2WCJ-4.7	453530474	<P>
R7631,R7632	C-CARBON R	RN72K1J-331JE	435033314R1	
R7633,R7634,R7635	C-CARBON R	RN72K1J-750JE	435037504R1	
R7641,R770	C-CARBON R	RN72K1J-221JE	435032214R1	
R766,R769	C-CARBON R	RN72K1J-271JE	435032714R1	
R781	C-CARBON R	RN72K1J-331JE	435033314R1	
R785,R786	C-CARBON R	RN72K1J-470JE	435034704R1	
R787	CARBON R	R16J-56K	417345634	<T>
R792	METAL R	RNU1/2WCJ-0.22	453532294	
R793	METAL R	RNU2WCJ-8.2	452730824F	
P101	PIN JACK	NPJ-2PDO445 or	25045640 or	
P101	PIN JACK	NPJ-2PDOO626	25045847	
P7632	PIN JACK	NPJ-3PDB472	25045674	
P102	ST JACK	LGY2502-0200FC	25045696	
P7601	ST JACK	YKB21-5100A	25045563	
JL703B	WIRE TRAP	NPLG-3P586	25055624	
JL7452A	SOCKET	NSCT-5P110	25050282	
JL7501B	SOCKET	NSCT-3P95	25050267	
JL7540B	SOCKET	NSCT-9P101	25050273	
P3101B	SOCKET	NSCT-15P2195	25052298	
P3102B	SOCKET	NSCT-8P2188	25052291	
P3103B,P3104B	SOCKET	NSCT-17P2197	25052300	
P3105B	SOCKET	NSCT-17P2197	25052300	
P601B	SOCKET	IMSA-9115S-12L	25052992	
P602B	SOCKET	NSCT-20P2200	25052303	
P701A	SOCKET	NSCT-13P2106	25052209	
P702	SOCKET	NSCT-9P2427	25052530	
P7534A	SOCKET	NSCT-40P2274	25052377	
P7631	SOCKET	NSCT-4P1748	25051961	
P2004A,P2005A	PLUG	NPLG-13P0968	25056018	
P601A	PLUG	IMSA-9115B-12	25056342	
P602A	PLUG	NPLG-20P0975	25056025	
P710A	PLUG	NPLG-13P0968	25056018	<D>
P954A	PLUG	IMSA-9115B-15	25056345	
P959A	PLUG	IMSA-9115B-18	25056348	
P655	TRM	NTM-1P232	25060301	
P201	WS CLAMP	CB-71683(L=50)	260261	
PRIMARY CIRCUIT PC BOARD (NAPS-8664-1J/1K/1L/1M/1N/1P)				
SECONDARY CIRCUIT PC BOARD (NAPS-8665-1J/1K/1L/1M/1N/1P)				
SPEAKER TERMINAL PC BOARD (NAETC-8666-1J/1K/1L/1M/1N/1P)				
SPEAKER TERMINAL C PC BOARD (NAETC-8667-1J/1K/1L/1M/1N/1P)				
DRIVER CIRCUIT PC BOARD (NAAF-8668-1J/1K/1L/1M/1N/1P)				
POWER SWITCH PC BOARD (NAPS-8669-1L/1M/1N/1P)				
HOLDER PC BOARD (NAETC-8670-1L/1M/1N/1P)				
AC OUTLET PC BOARD (NAETC-8672-1M)				
CIRCUIT NO.	PART NAME	DESCRIPTION	PART NO.	REMARKS
U5501	REMO SENS	GP1UM281XKVFH=16MM	241361	
Q5501	IC	ICL3221ECVZ	22242268R2	<T/K/R/P/Q>
Q901	IC	SI-3010KF	22242203	<T>
Q951	IC	LM2940CT-5.0	22242242	

Q952	IC	S-812C53AY-Z-G	22242271	<D>
Q5000,Q5001	TR	2SC2240-BL or	2211406 or	*
Q5002,Q5003	TR	2SC1845-E	2211733	*
Q5004,Q5005	TR	2SC2240-BL or	2211406 or	*
Q5006	TR	2SC1845-E	2211733	*
Q5010,Q5011	TR	2SC2240-BL or	2211406 or	*
Q5012,Q5013	TR	2SC1845-E	2211733	*
Q5014,Q5015	TR	2SC2240-BL or	2211406 or	*
Q5016	TR	2SC1845-E	2211733	*
Q5030,Q5031,Q5032	TR	2SA949-Y	2211354	
Q5033,Q5034	TR	2SA949-Y	2211354	
Q5035,Q5036	TR	2SA949-Y	2211354	
Q5040,Q5041,Q5042	TR	2SC2229-Y	2211634	
Q5043,Q5044	TR	2SC2229-Y	2211634	
Q5045,Q5046	TR	2SC2229-Y	2211634	
Q5050,Q5051	TR	2SC2240-BL or	2211406 or	
Q5052,Q5053	TR	2SC1845-E	2211733	
Q5054,Q5055	TR	2SC2240-BL or	2211406 or	
Q5056	TR	2SC1845-E	2211733	
Q5502	TR	2SB1240-R	2213794	
Q5505	TR	KRC102M or	2215960 or	
	TR	DTC114ES	2213290	
Q912,Q960	TR	2SC1740S-R or	2213284 or	
	TR	2SC2458-GR or	2212115 or	
	TR	2SC1740S-S or	2213285 or	
	TR	KTC3199-GR	2215864	
Q954	TR	2SA965-Y	2211644	
Q955	TR	2SD1858-R	2213214	
Q956	TR	KRC102M or	2215960 or	
	TR	DTC114ES	2213290	
Q957	TR	2SA1015-GR	2211455	
Q958	TR	KRC102M or	2215960 or	<P/Q>
	TR	DTC114ES	2213290	<P/Q>
Q959	TR	2SA1930	2203000	<D>
D5000,D5001	ZENER D	DZ-5.6BSB or	224850562 or	
D5002,D5003	ZENER D	MTZJ5.6B	224470562	
D5004,D5005	ZENER D	DZ-5.6BSB or	224850562 or	
D5006	ZENER D	MTZJ5.6B	224470562	
D5501,D5502	DIODE	1SS133(DS) or	223280 or	
D6600,D6603	DIODE	1SS133 or	223163 or	
D6605,D6607	DIODE	1SS270A	223205	
D5507	SPCF D	SIR-34ST3F	225456	
D901,D902,D903	DIODE	1SS133(DS) or	223280 or	
D904,D905,D906	DIODE	1SS133 or	223163 or	
D907,D908,D909	DIODE	1SS270A	223205	
D910	ZENER D	DZ-6.8BSC or	224850683 or	<D/T>
	ZENER D	MTZJ6.8C or	224470683 or	<D/T>
	ZENER D	DZ-6.8BSB or	224850682 or	<D/T>
	ZENER D	MTZJ6.8B	224470682	<D/T>
D910	ZENER D	DZ-5.6BSB or	224850562 or	<P/A/K/R/Q>
	ZENER D	MTZJ5.6B	224470562	<P/A/K/R/Q>
D912,D913	DIODE	1SS133(DS) or	223280 or	
D951,D952	DIODE	1SS133 or	223163 or	
	DIODE	1SS270A	223205	
D953	DIODE	D10XB60H	22380337	
D954	ZENER D	MTZJ8.2C or	224470823 or	
	ZENER D	MTZ8.2C	224450823	
D956,D957	DIODE	RL1N4003 or	22380260 or	
	DIODE	GP104003E	22380035	
D958	ZENER D	DZ-33BSD or	224853304 or	
	ZENER D	MTZJ33D	224473304	
D961,D962,D963	DIODE	RL1N4003 or	22380260 or	
D964,D965,D966	DIODE	GP104003E	22380035	
D967,D968,D969	DIODE	1SS133(DS) or	223280 or	
	DIODE	1SS133 or	223163 or	
D970,D971	DIODE	1SS270A	223205	
D991,D992	DIODE	1SS270A	223205	

L5501	CHOKE COIL	NCH-1452 022M	233454M022	<T/K/R/P/Q>
L5502	CHOKE COIL	NCH-1452 022M	233454M022	
L6600,L6601,L6602	S COIL	S-1.3C	231176S	<T/K/R/P/Q>
L6603,L6604,L6605	S COIL	S-1.3C	231176S	<T/K/R/P/Q>
L6606	S COIL	S-1.3C	231176S	<T/K/R/P/Q>
T902	P TRANS	NPT-1520JQ	2301812	! <D>
	P TRANS	NPT-1519GQ	2301811	! <T/K/R/P/Q>
	P TRANS	NPT-1519JQ	2301810	! <T>
C5000,C5001,C5002	TF C	ECQ-B50V-221K	374722215	
C5003,C5004	TF C	ECQ-B50V-221K	374722215	
C5005,C5006	TF C	ECQ-B50V-221K	374722215	
C5010,C5011,C5012	VX C	CE04W50V-47M(VX)	393384707	
C5013,C5014	VX C	CE04W50V-47M(VX)	393384707	
C5015,C5016	VX C	CE04W50V-47M(VX)	393384707	
C5020,C5021,C5022	VX C	CE04W50V-10M(VX)	393381007	
C5023,C5024	VX C	CE04W50V-10M(VX)	393381007	
C5025,C5026	VX C	CE04W50V-10M(VX)	393381007	
C5040,C5041,C5042	VX C	CE04W25V-220M(VX)	393352217	
C5043,C5044	VX C	CE04W25V-220M(VX)	393352217	
C5045,C5046	VX C	CE04W25V-220M(VX)	393352217	
C5050,C5051,C5052	VX C	CE04W50V-47M(VX)	393384707	
C5053,C5054	VX C	CE04W50V-47M(VX)	393384707	
C5055,C5056	VX C	CE04W50V-47M(VX)	393384707	
C5080,C5081,C5082	CERA C	CC45SL50V-040C	345020401	
C5083,C5084	CERA C	CC45SL50V-040C	345020401	
C5085,C5086	CERA C	CC45SL50V-040C	345020401	
C5090,C5091,C5092	TF C	ECQ-B50V-101K	374721015	
C5093,C5094	TF C	ECQ-B50V-101K	374721015	
C5095,C5096	TF C	ECQ-B50V-101K	374721015	
C5100,C5101,C5102	VR C	CE04W100V-10M(VR)	394691007	
C5103,C5104	VR C	CE04W100V-10M(VR)	394691007	
C5105,C5106	VR C	CE04W100V-10M(VR)	394691007	
C5110,C5111,C5112	VR C	CE04W100V-10M(VR)	394691007	
C5113,C5114	VR C	CE04W100V-10M(VR)	394691007	
C5115,C5116	VR C	CE04W100V-10M(VR)	394691007	
C5501	VR C	CE04W16V-100M(VR)	394641017	<T/K/R/P/Q>
C5502,C5507	CERA C	CK45F50V-223Z	335622230	<T/K/R/P/Q>
C5503,C5504	VR C	CE04W50V-1M(VR)	394680107	<T/K/R/P/Q>
C5505,C5506	VR C	CE04W50V-1M(VR)	394680107	<T/K/R/P/Q>
C5508,C5509	TF C	ECQ-B50V-102J	374721024	
C5511,C5512	VR C	CE04W16V-100M(VR)	394641017	
C5513,C970	CERA C	CK45F50V-223Z	335622230	
C5514	CERA C	CK45B50V-102K	335321025	
C5515,C5516	CERA C	CK45F50V-103Z	335621030	
C6600 ,C6602,C6603	CERA C	CK45F50V-103Z	335621030	
C6605,C6607	CERA C	CK45F50V-103Z	335621030	
C6640,C6641,C6642	TF C	ECQ-B50V-103J	374721034	<A/T/K/R/P/Q>
C6643,C6644,C6645	TF C	ECQ-B50V-103J	374721034	<A/T/K/R/P/Q>
C6646,C6647,C6648	TF C	ECQ-B50V-103J	374721034	<A/T/K/R/P/Q>
C6650,C6651,C6652	TF C	ECQ-B50V-102J	374721024	<A/T/K/R/P/Q>
C6653,C6654,C6655	TF C	ECQ-B50V-102J	374721024	<A/T/K/R/P/Q>
C6656,C6657,C6658	TF C	ECQ-B50V-102J	374721024	<A/T/K/R/P/Q>
C902	TF C	ECQ-B50V-223J	374722234	
C903	VR C	CE04W35V-2200M(VR)	394662227S	
C904	VR C	CE04W50V-100M(VR)	394681017	
C905	VR C	CE04W50V-10M(VR)	394681007	<T>
C906,C953	VR C	CE04W50V-3.3M(VR)	394680337	
C907	VR C	CE04W50V-100M(VR)	394681017	<T>
C912	IS C	RE275V-103M or	3500196S or	!
	IS C	LE103-C3.5	3800042S	!
C929,C964	TF C	ECQ-B50V-102J	374721024	
C951,C952	TF C	ECQ-V50V-334J	374723344	
C954	VR C	CE04W16V-10000M(VR)	394641037S	
C955	VR C	CE04W16V-3300M(VR)	394643327S	
C956	VR C	CE04W50V-10M(VR)	394681007	
C957	VR C	CE04W16V-100M(VR)	394641017	

C958	VR C	CE04W50V-10M(VR)	394681007	<D>
C959	VR C	CE04W16V-100M(VR)	394641017	<D>
C962,C963	TF C	ECQ-V50V-334J	374723344	
C965	VR C	CE04W35V-3300M(VR)	394663327S	
C966	VR C	CE04W35V-1000M(VR)	394661027S	
C967	VR C	CE04W50V-220M(VR)	394682217	
C968	VR C	CE04W63V-220M(VR)	394672217	
C969	VR C	CE04W50V-47M(VR)	394684707	
C973	VR C	CE04W16V-470M(VR)	394644717	
C974	VR C	CE04W50V-10M(VR)	394681007	
C991	TF C	ECQ-B50V-222J	374722224	
R5000,R5001,R5002	CARBON R	R16J-1K	417341024	
R5003,R5004	CARBON R	R16J-1K	417341024	
R5005,R5006	CARBON R	R16J-1K	417341024	
R5010,R5011,R5012	CARBON R	R16J-56K	417345634	
R5013,R5014	CARBON R	R16J-56K	417345634	
R5015,R5016	CARBON R	R16J-56K	417345634	
R5020,R5021,R5022	CARBON R	R16J-330	417343314	
R5023,R5024	CARBON R	R16J-330	417343314	
R5025,R5026	CARBON R	R16J-330	417343314	
R5030,R5031,R5032	CARBON R	R16J-120K	417341244	
R5033,R5034	CARBON R	R16J-120K	417341244	
R5035,R5036	CARBON R	R16J-120K	417341244	
R5040,R5041,R5042	CARBON R	R16J-2.2K	417342224	
R5043,R5044	CARBON R	R16J-2.2K	417342224	
R5045,R5046	CARBON R	R16J-2.2K	417342224	
R5050,R5051,R5052	CARBON R	R16J-4.7K	417344724	
R5053,R5054	CARBON R	R16J-4.7K	417344724	
R5055,R5056	CARBON R	R16J-4.7K	417344724	
R5060,R5061,R5062	CARBON R	R16J-1.2K	417341224	
R5063,R5064	CARBON R	R16J-1.2K	417341224	
R5065,R5066	CARBON R	R16J-1.2K	417341224	
R5080,R5081,R5082	CARBON R	R16J-470	417344714	
R5083,R5084	CARBON R	R16J-470	417344714	
R5085,R5086	CARBON R	R16J-470	417344714	
R5090,R5091,R5092	CARBON R	R16J-100K	417341044	
R5093,R5094	CARBON R	R16J-100K	417341044	
R5095,R5096	CARBON R	R16J-100K	417341044	
R5100,R5101,R5102	CARBON R	R16J-100K	417341044	
R5103,R5104	CARBON R	R16J-100K	417341044	
R5105,R5106	CARBON R	R16J-100K	417341044	
R5110,R5111,R5112	CARBON R	R16J-1K	417341024	
R5113,R5114	CARBON R	R16J-1K	417341024	
R5115,R5116	CARBON R	R16J-1K	417341024	
R5130,R5131,R5132	CARBON R	R16J-22K	417342234	
R5133,R5134	CARBON R	R16J-22K	417342234	
R5135,R5136	CARBON R	R16J-22K	417342234	
R5160,R5161,R5162	NF CARBON R	R25J-100	415471014	
R5163,R5164	NF CARBON R	R25J-120	415471214	
R5165,R5166	NF CARBON R	R25J-120	415471214	
R5170,R5171,R5172	NF CARBON R	R25J-100	415471014	
R5173,R5174	NF CARBON R	R25J-120	415471214	
R5175,R5176	NF CARBON R	R25J-120	415471214	
R5180,R5181,R5182	NF CARBON R	R25J-10	415471004	
R5183,R5184	NF CARBON R	R25J-10	415471004	
R5185,R5186	NF CARBON R	R25J-10	415471004	
R5190,R5191,R5192	NF CARBON R	R25J-10	415471004	
R5193,R5194	NF CARBON R	R25J-10	415471004	
R5195,R5196	NF CARBON R	R25J-10	415471004	
R5200,R5201,R5202	CARBON R	R16J-22K	417342234	
R5203,R5204	CARBON R	R16J-22K	417342234	
R5205,R5206	CARBON R	R16J-22K	417342234	
R5230,R5231,R5232	CARBON R	R16J-120K	417341244	
R5233,R5234	CARBON R	R16J-120K	417341244	
R5235,R5236	CARBON R	R16J-120K	417341244	
R5502,R5503	CARBON R	R16J-330	417343314	<T/K/R/P/Q>

R5504,R5505,R5506	CARBON R	R16J-10K	417341034	<T/K/R/P/Q>
R5507,R5508	CARBON R	R16J-330	417343314	<T/K/R/P/Q>
R5509,R5525,R5526	CARBON R	R16J-100	417341014	
R5511	CARBON R	R16J-3.9	417340394	
R5514,R5524	CARBON R	R16J-1K	417341024	
R5519	CARBON R	R16J-220K	417342244	
R6600,R6601,R6602	CARBON R	R16J-22	417342204	<A/T/K/R/P/Q>
R6603,R6604,R6605	CARBON R	R16J-22	417342204	<A/T/K/R/P/Q>
R6606,R6610,R6611	CARBON R	R16J-22	417342204	<A/T/K/R/P/Q>
R6612,R6613,R6614	CARBON R	R16J-22	417342204	<A/T/K/R/P/Q>
R6615,R6616	CARBON R	R16J-22	417342204	<A/T/K/R/P/Q>
R6690	METAL R	RNU1/2WCJ-0.22	453532294	
R905,R906	CARBON R	R16J-100K	417341044	<T>
R907	CARBON R	R16J-82K	417348234	<T>
R908	CARBON R	R16J-10K	417341034	<T>
R909,R914	CARBON R	R16J-100K	417341044	
R913,R958	CARBON R	R16J-1K	417341024	
R946	METAL O R	RS1/2WBJ-10	443521004	
R951,R952	METAL R	RNU1/2WCJ-2.2	453530224	
R953,R967	METAL R	RNU1WCJ-0.22	453632294	
R954,R955	METAL R	RNU1/2WCJ-2.2	453530224	
R956	METAL R	RNU1/4WJ-33	4500185	<D>
R957,R959	CARBON R	R16J-2.2K	417342224	
R961	METAL R	RNU1/2WCJ-2.2	453530224	<A/K/R/P/Q>
	METAL R	RNU1/2WCJ-4.7	453530474	<D>
	METAL R	RNU1/2WCJ-6.8	453530684	<T>
R962	METAL R	RNU1/2WCJ-2.2	453530224	
R963	METAL O R	RS1/2WBJ-22	443522204	
R964	CARBON R	R16J-15K	417341534	
R965	CARBON R	R16J-33K	417343334	
R966	METAL R	RNU1/2WCJ-0.22	453532294	<D>
R970	METAL R	RNU1WCJ-2.2	453630224	
R971	METAL R	RNU1/2WCJ-2.2	453530224	
RL6600,RL6602	RELAY	NRL-2P5A-DC24-158 or	25065618 or	
RL6603,RL6605	RELAY	NRL-2P5A-DC24-129	25065563	
RL6607	RELAY	NRL-2P5A-DC24-158 or	25065618 or	
	RELAY	NRL-2P5A-DC24-129	25065563	
RL902	RELAY	NRL-1P10A-DC9-186	25065683	!
S901	SLIDE SW	NSS-22157P	25065437	<T>
S910	P SW	NPS-111-L590P	25035636	<T/K/R/P/Q>
P5503	PIN JACK	NPJ-2PDBL185	25045333	
P5506	ST JACK	HSJ1002-01-1020	25045647	
P6600	TRM	NTM-8PDMN341	25060412	<D>
	TRM	NTM-8PDMN342	25060413	<A/T/K/R/P/Q>
P6602	TRM	NTM-2PDMN318	25060387	<D>
	TRM	NTM-2PDMN319	25060388	<A/T/K/R/P/Q>
P6605	TRM	NTM-4PDMN345	25060416	<D>
	TRM	NTM-4PDMN355	25060426	<A/T/K/R/P/Q>
P6607	TRM	NTM-4PDMN308	25060377	<D>
	TRM	NTM-4PDMN332	25060402	<A/T/K/R/P/Q>
P910	AC OUTLET	NSCT-4P913	25051126	! <D>
	AC OUTLET	NSCT-2P2013	25052115	! <A>
	AC OUTLET	AC-181-GB-11VGY5311	25053032	! <R>
	AC OUTLET	NSCT-4P912	25051125	! <T/P/Q>
F901A,F901B	FUSE HOL	NSCT-1P2031	25052133	!
F902A,F902B	FUSE HOL	NSCT-1P2031	25052133	! <T>
F903A,F903B	FUSE HOL	NSCT-1P2031	25052133	!
F931A,F931B	FUSE HOL	NSCT-1P2031	25052133	!
F932A,F932B	FUSE HOL	NSCT-1P2031	25052133	!
F951A,F951B	FUSE HOL	NSCT-1P2031	25052133	!
F952A,F952B	FUSE HOL	NSCT-1P2031	25052133	!
F901C	LABEL	T6.3AL/250V	29361681	<A/T/K/R/P/Q>
F903C	LABEL	T2.5AL250V	29361747	<A/T/K/R/P/Q>
F931C	LABEL	T1.6AL250V	29361769	<A/T/K/R/P/Q>
F951C	LABEL	T6.3AL/250V	29361681	<A/T/K/R/P/Q>
JL2006B	SOCKET	NSCT-5P97	25050269	

JL6006A	WIRE HOL	NSCT-5P896	25051109	
JL6600B	SOCKET	NSCT-7P99	25050271	
JL6602A	WIRE HOL	NSCT-4P895	25051108	
JL6602B	SOCKET	NSCT-4P96	25050268	
JL6603B	SOCKET	NSCT-9P101	25050273	
JL911A	WIRE HOL	NSCT-6P877	25051090	
JL957B	SOCKET	NSCT-5P97	25050269	
P5501	SOCKET	7906-09FHA or	25053103 or	<T/K/R/P/Q>
	SOCKET	NSCT-9P2277	25052379	<T/K/R/P/Q>
P6000A,P6001A	SOCKET	NSCT-5P2185	25052288	
P6002A,P6003A	SOCKET	NSCT-5P2185	25052288	
P6004A,P6005A	SOCKET	NSCT-5P2185	25052288	
P954B	SOCKET	IMSA-9115S-15L	25052995	
P959B	SOCKET	IMSA-9115S-18L	25052998	
JL911B	WIRE TRAP	NPLG-6P589	25055627	
P5004A	PLUG	NPLG-13P141	25055157	
P901A	PLUG	NPLG-2P631	25055675	!
P912	PLUG	NPLG-2P631	25055675	<D/A/K/R/P/Q>
	PLUG	B5P9-VH	25056568	<T>
P951	PLUG	NPLG-4P151	25055167	
P952	PLUG	NPLG-5P119	25055135	
P955	PLUG	NPLG-2P83	25055099	
D953B,Q951D	HEAT SINK	RAD-183	27160526	
P6011B	RETAINER	(BUS-U)	27141859	
Q951F	RETAINER	(U)	27142012	
Q951H	SPACER	8X3X0.188	82143010GR	
D953A,Q951A,Q951G	SCREW	3P+10FN(3BC)	82143010GR	
Q959A	SCREW	3P+10FN(3BC)	82143010GR	<D>

DISPLAY CIRCUIT PC BOARD (NADIS-8675-1D)**HEADPHONE TERMINAL PC BORAD (NAETC-8676-1D)****VOLUME PC BOARD (NAETC-8677-1D)**

CIRCUIT NO.	PART NAME	DESCRIPTION	PART NO.	REMARKS
Q7501	FL TUBE	HNA-16SM10T	212249GRA	
Q7502	IC	M66005-0001AHP	22242208R3	
Q7515,Q7601	IC	NE5532APSR	22242283R2	
Q7503,Q7510	TR	KTC3875-GR or	2216175R2 or	
	TR	2SC2712-GR	2213145R2	
Q7506,Q7508	TR	KRC102S or	2216190R2 or	
	TR	RN1402	2214470R2	
Q7507,Q7509	TR	KRA102S or	2216220R2 or	
	TR	RN2402	2214530R2	
Q7602,Q7605,Q7607	TR	RN1441	2215410R2	
U7501	REMO SENS	GP1UM281XKVFH=16MM	241361	
D7501	ZENER D	UDZS8.2B or	224550820R2 or	
	ZENER D	HZU8.2B	224660824R2	
D7502	LED	SLI-343URC-TE7	225449	
D7503	LED	SEL4310G-D or	225292D or	
	LED	SEL4410G or	225454 or	
	LED	SLR-342MGTE7P	225455	
D7515,D7591	LED	SDPB3DD0C	225464	
D7601	ZENER D	UDZS5.1B or	224550510R2 or	
	ZENER D	HZU5.1B	224660514R2	
L7501,L7502,L7503	CHOKE COIL	NCH-1471 or	231237K022R2 or	
L7621,L7622,L7623	CHOKE COIL	NCH-1587-022M	233533M022R2	
C7501	C-CERA C	CK725F1E-104Z1	332161040R1	
C7502,C7521	ELECT C	CE04W6.3V-100M(S)	353721019	
C7504,C7512,C7513	C-CERA C	CK725F1H-473Z1	332154730R1	
C7505,C7506,C7507	C-CERA C	CK725F1E-104Z1	332161040R1	
C7508	C-CERA C	CK725F1H-223Z1	332152230R1	
C7509,C7510,C7514	C-CERA C	CK725F1H-104Z1	332151040R1	
C7511	ELECT C	CE04W50V-33M	355783309	
C7515,C7516,C7517	C-CERA C	CC725CH1H-101J1	342101014R1	
C7518,C7520,C7603	C-CERA C	CC725CH1H-101J1	342101014R1	
C7519,C7523	C-CERA C	CK725F1E-104Z1	332161040R1	
C7522	MMT C	MMT50V-474J	375524744	
C7554	ELECT C	CE04W50V-2.2M(S)	353780229	

C7591,C7592	C-CERA C	CK725F1E-104Z1	332161040R1	
C7605	C-CERA C	CC725CH1H-330J1	342103304R1	
C7607,C7609	ELECT C	CE04W16V-10M(S)	353741009	
C7610,C7612,C7613	ELECT C	CE04W16V-47M(S)	353744709	
C7621,C7622	C-CERA C	CK725B1H-102K1	332101025R1	
C7623,C7624	C-CERA C	CK725B1H-102K1	332101025R1	
R7501,R7605	C-CARBON R	RN72K1J-104JE	435031044R1	
R7517,R7518,R7522	C-CARBON R	RN72K1J-221JE	435032214R1	
R7519	C-CARBON R	RN72K1J-273JE	435032734R1	
R7520,R7521	C-CARBON R	RN72K1J-332JE	435033324R1	
R7523,R7611,R7613	C-CARBON R	RN72K1J-221JE	435032214R1	
R7527,R7529,R7622	C-CARBON R	RN72K1J-101JE	435031014R1	
R7528,R7545,R7546	C-CARBON R	RN72K1J-102JE	435031024R1	
R7530,R7556,R7562	C-CARBON R	RN72K1J-222JE	435032224R1	
R7542	C-CARBON R	RN72K1J-181JE	435031814R1	
R7547,R7548,R7554	C-CARBON R	RN72K1J-821JE	435038214R1	
R7551,R7557,R7563	C-CARBON R	RN72K1J-331JE	435033314R1	
R7552,R7558	C-CARBON R	RN72K1J-471JE	435034714R1	
R7553,R7559	C-CARBON R	RN72K1J-561JE	435035614R1	
R7555,R7561	C-CARBON R	RN72K1J-122JE	435031224R1	
R7560,R7566,R7571	C-CARBON R	RN72K1J-821JE	435038214R1	
R7564,R7569	C-CARBON R	RN72K1J-471JE	435034714R1	
R7565,R7570	C-CARBON R	RN72K1J-561JE	435035614R1	
R7567,R7572	C-CARBON R	RN72K1J-122JE	435031224R1	
R7568,R7600,R7618	C-CARBON R	RN72K1J-331JE	435033314R1	
R7573,R7576	C-CARBON R	RN72K1J-222JE	435032224R1	
R7574,R7577	C-CARBON R	RN72K1J-392JE	435033924R1	
R7578	C-CARBON R	RN72K1J-123JE	435031234R1	
R7579,R7580	C-CARBON R	RN72K1J-392JE	435033924R1	
R7591,R7592	C-CARBON R	RN72K1J-103JE	435031034R1	
R7593,R7594	C-CARBON R	RN72K1J-680JE	435036804R1	
R7606	C-CARBON R	RN72K1J-102JE	435031024R1	
R7607	C-CARBON R	RN72K1J-224JE	435032244R1	
R7609	C-CARBON R	RN72K1J-333JE	435033334R1	
R7620,R7624,R7625	C-CARBON R	RN72K1J-000JE	435030004R1	
R7621,R7623	C-CARBON R	RN72K1J-100JE	435031004R1	
R7626,R7627	C-CARBON R	RN72K1J-000JE	435030004R1	
R7628,R7629	C-CARBON R	RN72K1J-563JE	435035634R1	
R7703	C-CARBON R	RN72K1J-472JE	435034724R1	
R7721,R7722	C-CARBON R	RN72K1J-000JE	435030004R1	
S7501,S7502,S7503	PUSH SW	NPS-111-S681 or	25035718 or	
S7504,S7505,S7506	PUSH SW	NPS-111-S677	25035714	
S7507,S7508,S7509	PUSH SW	NPS-111-S681 or	25035718 or	
S7510,S7511,S7512	PUSH SW	NPS-111-S677	25035714	
S7513,S7514,S7515	PUSH SW	NPS-111-S681 or	25035718 or	
S7516,S7517,S7518	PUSH SW	NPS-111-S677	25035714	
S7519,S7520,S7521	PUSH SW	NPS-111-S681 or	25035718 or	
S7522,S7523,S7524	PUSH SW	NPS-111-S677	25035714	
S7525,S7526,S7527	PUSH SW	NPS-111-S681 or	25035718 or	
S7528,S7530	PUSH SW	NPS-111-S677	25035714	
S7531,S7532	PUSH SW	NPS-111-S681 or	25035718 or	
S7533,S7534	PUSH SW	NPS-111-S677	25035714	
S7591	R ENCODE	EC12E2425	25065655	Volume
P7602	ST JACK	MSJ-064-05A SR or	25045783 or	
	ST JACK	YKB21-5005	25045724	
JL7501A	WIRE HOL	NSCT-3P894	25051107	
JL7503A,JL7503B	WIRE HOL	NSCT-4P895	25051108	
JL7540A	WIRE HOL	NSCT-9P900	25051113	
JL7542B,JL957A	WIRE HOL	NSCT-5P896	25051109	
P7534B	SOCKET	NSCT-40P2274	25052377	
Q7501A	HOLDER	(FL)	27191222B	

AMPLIFIER PC BOARD (NAAF-8678-1D)**THERMAL DETECTOR PC BOARD (NAETC-8680-1D)****SURROUND BACK AMPLIFIER PC BOARD (NAAF-8682-1D)**

CIRCUIT NO.	PART NAME	DESCRIPTION	PART NO.	REMARKS
Q3001	IC	NE5532APSR	22242283R2	

Q3002	IC	NJU7311AM	22242209R2	
Q3003	IC	NJW1157B	22242193R3	
Q3004	IC	NE5532APSR	22242283R2	
Q3005	IC(REGULATOR)	78L07(SMT) or	222780073R2 or	
	IC(REGULATOR)	NJM78L07UA or	222780073R2JR or	
	IC(REGULATOR)	TA78L07F	222780073R2TO	
Q3006	IC(REGULATOR)	79L07(SMT)	222790073R2	
Q3007,Q3008	IC	NE5532APSR	22242283R2	
Q3505	IC	LM2940CT-5.0	22242242	
Q3506	IC(REGULATOR)	79005HF(TA79005S) or	222790054TOS or	
	IC(REGULATOR)	7905FA(NJM7905FA)	222790054JRC	
Q3507	IC(REGULATOR)	7812HF(TA7812S) or	222780124TOS or	
	IC(REGULATOR)	7812 or	222780124 or	
	IC(REGULATOR)	7812PI(S7812PI)	222780124AUK	
Q3508	IC(REGULATOR)	79012HF(TA79012S) or	222790124TOS or	
	IC(REGULATOR)	7912FA(NJM7912FA) or	222790124JRC or	
	IC(REGULATOR)	7912PI(S7912PI)	222790124AUK	
Q6380	IC	LM61CIZ	22242212	
Q3200,Q3201,Q3202	TR	RN1443	2215510R2	
Q3203,Q3204	TR	RN1443	2215510R2	
Q3205,Q3206	TR	RN1443	2215510R2	
Q3207,Q3210	TR	RN1443	2215510R2	
Q3211,Q3212,Q3213	TR	RN1443	2215510R2	
Q3214	TR	RN1443	2215510R2	
Q3215,Q3216	TR	RN1443	2215510R2	
Q3217	TR	RN1443	2215510R2	
Q3251,Q3252	TR	KRC102S or	2216190R2 or	
	TR	RN1402	2214470R2	
Q3401,Q3402,Q3403	TR	RN1443	2215510R2	
Q3404	TR	RN1443	2215510R2	
Q3501	TR	2SB1240-R	2213794	
Q3502	TR	2SD1468S-R	2215024	
Q3503	TR	KRC102S or	2216190R2 or	
	TR	RN1402	2214470R2	
Q3504	TR	KTA1504-GR or	2216185R2 or	
	TR	2SA1162-GR	2214375R2	
Q6000,Q6001,Q6002	TR	2SC1740S-S	2213285	
Q6003,Q6004	TR	2SC1740S-S	2213285	
Q6005,Q6006	TR	2SC1740S-S	2213285	
Q6010,Q6011	TR	2SC1740S-S	2213285	
Q6012,Q6013,Q6014	TR	2SC1740S-S	2213285	
Q6015,Q6016	TR	2SC1740S-S	2213285	
Q6030,Q6031	TR	2SC5171 or	2203010 or	
Q6032,Q6033,Q6034	TR	2SC5993-Q,P	2217161	
Q6035	TR	2SC5171 or	2203010 or	
Q6036	TR	2SC5993-Q,P	2217161	
Q6040,Q6041	TR	2SA1930 or	2203000 or	
Q6042,Q6043,Q6044	TR	2SA2140-Q,P	2217151	
Q6045	TR	2SA1930 or	2203000 or	
Q6046	TR	2SA2140-Q,P	2217151	
Q6070,Q6071	TR	2SC2229-Y or	2211634 or	
Q6072,Q6073,Q6074	TR	2SC2229-O	2211633	
Q6075	TR	2SC2229-Y or	2211634 or	
Q6076	TR	2SC2229-O	2211633	
Q6701,Q6702,Q6707	TR	KTC3875-GR or	2216175R2 or	
	TR	2SC2712-GR	2213145R2	
Q6703	TR	2SA1163-BL	2216756R2	
Q6704	TR	KTA1504-GR or	2216185R2 or	
	TR	2SA1162-GR	2214375R2	
D3005,D3006,D3938	C-DIODE	KDS4148U or	223283R2 or	
D3939,D3940,D3941	C-DIODE	1SS352 or	223234R2 or	
D6701,D6702,D6902	C-DIODE	1SS355 or	223269R2 or	
D3201,D3202	C-DIODE	MA2J111	223279R2	
D6000,D6001,D6002	DIODE	1SS133(DS) or	223280 or	
D6003,D6004,D6010	DIODE	1SS133 or	223163 or	
D6011,D6012,D6013	DIODE	1SS270A	223205	

D6014	DIODE	1SS133(DS) or	223280 or	
	DIODE	1SS133 or	223163 or	
	DIODE	1SS270A	223205	
D6005,D6006	DIODE	1SS133(DS) or	223280 or	
D6015,D6016	DIODE	1SS133 or	223163 or	
	DIODE	1SS270A	223205	
D6703,D6704	ZENER D	UDZS5.1B or	224550510R2 or	
	ZENER D	HZU5.1B	224660514R2	
D6901,D6903	DIODE	D10XB60H	22380337	
C3001,C3002	TF C	ECQ-B50V-221K	374722215	
C3005,C3006,C3007	C-CERA C	CC725CH1H-221J1	342102214R1	
C3008,C3011,C3012	C-CERA C	CC725CH1H-221J1	342102214R1	
C3015,C3016,C3017	C-CERA C	CC725CH1H-221J1	342102214R1	
C3018,C3019,C3020	C-CERA C	CC725CH1H-221J1	342102214R1	
C3021,C3022,C3106	C-CERA C	CC725CH1H-221J1	342102214R1	
C3023,C3024	C-CERA C	CC725CH1H-221J1	342102214R1	
C3027,C3028	TF C	ECQ-B50V-102J	374721024	
C3029,C3030,C3031	C-CERA C	CC725CH1H-102J1	342101024R1	
C3032,C3052,C3053	C-CERA C	CC725CH1H-102J1	342101024R1	
C3033,C3034	C-CERA C	CC725CH1H-102J1	342101024R1	
C3035,C3036	VX C	CE04W25V-47M(VX)	393354707	
C3037,C3038	VX C	CE04W10V-220M(VX)	393332217	
C3041,C3042	TF C	ECQ-B50V-123J	374721234	
C3043,C3044	TF C	ECQ-B50V-392J	374723924	
C3045,C3046	ELECT C	CE04W50V-10M(S)	353781009	
C3047,C3048	VX C	CE04W25V-47M(VX)	393354707	
C3049,C3050	C-CERA C	CC725CH1H-101J1	342101014R1	
C3051,C3054,C3055	C-CERA C	CC725CH1H-102J1	342101024R1	
C3057,C3058	C-CERA C	CC725CH1H-102J1	342101024R1	
C3059,C3060,C3061	VX C	CE04W50V-10M(VX)	393381007	
C3062,C3071,C3072	VX C	CE04W50V-10M(VX)	393381007	
C3063,C3064,C3065	VX C	CE04W25V-47M(VX)	393354707	
C3066,C3067,C3068	VX C	CE04W25V-47M(VX)	393354707	
C3069,C3070,C3084	VX C	CE04W25V-47M(VX)	393354707	
C3077,C3078,C3079	VX C	CE04W50V-10M(VX)	393381007	
C3080,C3081,C3085	VX C	CE04W50V-10M(VX)	393381007	
C3082,C3083	VX C	CE04W50V-10M(VX)	393381007	
C3086,C3098,C3099	VX C	CE04W50V-10M(VX)	393381007	
C3087	VX C	CE04W50V-1M(VX)	393380107	
C3088,C3091	VX C	CE04W50V-4.7M(VX)	393380477	
C3089,C3092	TF C	ECQ-V50V-224J	374722244	
C3090,C3093	TF C	ECQ-B50V-472J	374724724	
C3096,C3097	VX C	CE04W16V-470M(VX)	393344717	
C3100,C3101	VX C	CE04W25V-220M(VX)	393352217	
C3103,C3104	C-CERA C	CC725CH1H-330J1	342103304R1	
C3105,C3108,C3132	VX C	CE04W50V-10M(VX)	393381007	
C3107	C-CERA C	CK725B1H-103K1	332101035R1	
C3109,C3110	VX C	CE04W25V-220M(VX)	393352217	
C3111	C-CERA C	CC725CH1H-102J1	342101024R1	
C3113,C3114	C-CERA C	CC725CH1H-102J1	342101024R1	
C3115,C3116	VX C	CE04W10V-220M(VX)	393332217	
C3121,C3122	VX C	CE04W25V-47M(VX)	393354707	
C3123,C3124	VX C	CE04W25V-47M(VX)	393354707	
C3133,C3134,C3137	VX C	CE04W50V-10M(VX)	393381007	
C3135,C3136	VX C	CE04W50V-10M(VX)	393381007	
C3200,C3201,C3202	VX C	CE04W50V-47M(VX)	393384707	
C3203,C3204	VX C	CE04W50V-47M(VX)	393384707	
C3205,C3206	VX C	CE04W50V-47M(VX)	393384707	
C3411,C3412	VX C	CE04W50V-22M(VX)	393382207	
C3939,C3940,C3941	VX C	CE04W50V-10M(VX)	393381007	
C3942,C3943,C3944	VX C	CE04W50V-10M(VX)	393381007	
C3945	VX C	CE04W10V-100M(VX)	393331017	
C3946,C6706	VX C	CE04W50V-10M(VX)	393381007	
C6020,C6021,C6022	VX C	CE04W50V-47M(VX)	393384707	
C6023,C6024	VX C	CE04W50V-47M(VX)	393384707	
C6025,C6026	VX C	CE04W50V-47M(VX)	393384707	

C6030,C6031,C6032	TF C	ECQ-V100-473J	374734734	
C6033,C6034	TF C	ECQ-V100-473J	374734734	
C6035,C6036	TF C	ECQ-V100-473J	374734734	
C6701	VR C	CE04W16V-220M(VR)	394642217	
C6703,C6705	C-CERA C	CK725F1H-223Z1	332152230R1	
C6704	VR C	CE04W50V-1M(VR)	394680107	
C6901,C6902	ELECT C	CE69W71V-12000M	3504431	
C6911	C-CERA C	CC725CH1H-102J1	342101024R1	
C6912,C6913	TF C	ECQ-V100-334J	374733344	
C6915,C6916	TF C	ECQ-V50V-334J	374723344	
R3001,R3002,R3005	C-CARBON R	RN72K1J-331JE	435033314R1	
R3006,R3009,R3010	C-CARBON R	RN72K1J-331JE	435033314R1	
R3007,R3008,R3019	C-CARBON R	RN72K1J-563JE	435035634R1	
R3013,R3014,R3017	C-CARBON R	RN72K1J-331JE	435033314R1	
R3018,R3021,R3022	C-CARBON R	RN72K1J-331JE	435033314R1	
R3020,R3027,R3028	C-CARBON R	RN72K1J-563JE	435035634R1	
R3025,R3026,R3029	C-CARBON R	RN72K1J-331JE	435033314R1	
R3030,R3033,R3034	C-CARBON R	RN72K1J-331JE	435033314R1	
R3037,R3038,R3041	C-CARBON R	RN72K1J-331JE	435033314R1	
R3039,R3040,R3043	C-CARBON R	RN72K1J-563JE	435035634R1	
R3042	C-CARBON R	RN72K1J-331JE	435033314R1	
R3044	C-CARBON R	RN72K1J-563JE	435035634R1	
R3045,R3046	C-CARBON R	RN72K1J-331JE	435033314R1	
R3047,R3048	C-CARBON R	RN72K1J-563JE	435035634R1	
R3053,R3054,R3057	C-CARBON R	RN72K1J-101JE	435031014R1	
R3058,R3061	C-CARBON R	RN72K1J-101JE	435031014R1	
R3059,R3060,R3063	C-CARBON R	RN72K1J-224JE	435032244R1	
R3062	C-CARBON R	RN72K1J-101JE	435031014R1	
R3064	C-CARBON R	RN72K1J-224JE	435032244R1	
R3065,R3066	C-CARBON R	RN72K1J-101JE	435031014R1	
R3067,R3068	C-CARBON R	RN72K1J-224JE	435032244R1	
R3069,R3070	C-CARBON R	RN72K1J-474JE	435034744R1	
R3071,R3072	C-CARBON R	RN72K1J-561JE	435035614R1	
R3073,R3074	C-CARBON R	RN72K1J-274JE	435032744R1	
R3075,R3076	C-CARBON R	RN72K1J-223JE	435032234R1	
R3077,R3078	C-CARBON R	RN72K1J-122JE	435031224R1	
R3079,R3080	C-CARBON R	RN72K1J-101JE	435031014R1	
R3081,R3082	C-CARBON R	RN72K1J-100JE	435031004R1	
R3083,R3084,R3085	C-CARBON R	RN72K1J-221JE	435032214R1	
R3086,R3087,R3088	C-CARBON R	RN72K1J-221JE	435032214R1	
R3089,R3090	C-CARBON R	RN72K1J-220JE	435032204R1	
R3091,R3092,R3104	C-CARBON R	RN72K1J-122JE	435031224R1	
R3093,R3094	C-CARBON R	RN72K1J-471JE	435034714R1	
R3095,R3096,R3097	C-CARBON R	RN72K1J-103JE	435031034R1	
R3098,R3099,R3100	C-CARBON R	RN72K1J-103JE	435031034R1	
R3101,R3102	C-CARBON R	RN72K1J-220JE	435032204R1	
R3103	C-CARBON R	RN72K1J-473JE	435034734R1	
R3105	C-CARBON R	RN72K1J-153JE	435031534R1	
R3106,R6702,R6707	C-CARBON R	RN72K1J-103JE	435031034R1	
R3112,R3115,R3116	C-CARBON R	RN72K1J-000JE	435030004R1	
R3117,R3118	METAL O R	RS1/2WB-J-22	443522204	
R3119,R3120,R3121	C-CARBON R	RN72K1J-104JE	435031044R1	
R3123,R3124	C-CARBON R	RN72K1J-331JE	435033314R1	
R3125,R3126	C-CARBON R	RN72K1J-563JE	435035634R1	
R3127,R3128	C-CARBON R	RN72K1J-100JE	435031004R1	
R3129,R3130	C-CARBON R	RN72K1J-000JE	435030004R1	
R3210,R3211,R3212	C-CARBON R	RN72K1J-224JE	435032244R1	
R3213,R3214	C-CARBON R	RN72K1J-224JE	435032244R1	
R3215,R3216	C-CARBON R	RN72K1J-224JE	435032244R1	
R3217	C-CARBON R	RN72K1J-224JE	435032244R1	
R3220,R3221,R3222	C-CARBON R	RN72K1J-271JE	435032714R1	
R3223,R3224	C-CARBON R	RN72K1J-271JE	435032714R1	
R3225,R3226,R3227	C-CARBON R	RN72K1J-271JE	435032714R1	
R3230,R3231	C-CARBON R	RN72K1J-101JE	435031014R1	
R3232,R3233,R3234	C-CARBON R	RN72K1J-101JE	435031014R1	
R3235,R3236,R3237	C-CARBON R	RN72K1J-101JE	435031014R1	

R3251,R3252	METAL O R	RS1WBJ-120	443621214	
R3253,R3254	C-CARBON R	RN72K1J-000JE	435030004R1	
R3407,R3408	C-CARBON R	RN72K1J-223JE	435032234R1	
R3409,R3410	C-CARBON R	RN72K1J-471JE	435034714R1	
R3411,R3412	C-CARBON R	RN72K1J-221JE	435032214R1	
R3413,R3414	C-CARBON R	RN72K1J-681JE	435036814R1	
R3503,R3504	C-CARBON R	RN72K1J-473JE	435034734R1	
R3505,R3506	C-CARBON R	RN72K1J-102JE	435031024R1	
R6010,R6011,R6012	CARBON R	R16J-5.6K	417345624	
R6013,R6014	CARBON R	R16J-5.6K	417345624	
R6015,R6016	CARBON R	R16J-5.6K	417345624	
R6020,R6021,R6022	CARBON R	R16J-3.9K	417343924	
R6023,R6024	CARBON R	R16J-3.9K	417343924	
R6025,R6026	CARBON R	R16J-3.9K	417343924	
R6030,R6031,R6032	CARBON R	R16J-470	417344714	
R6033,R6034	CARBON R	R16J-470	417344714	
R6035,R6036	CARBON R	R16J-470	417344714	
R6040,R6041,R6042	TRIM R	N06HR2KBC	5210390	
R6043,R6044	TRIM R	N06HR2KBC	5210390	
R6045,R6046	TRIM R	N06HR2KBC	5210390	
R6050,R6051,R6052	CARBON R	R16J-3.3K	417343324	
R6053,R6054	CARBON R	R16J-3.3K	417343324	
R6055,R6056	CARBON R	R16J-3.3K	417343324	
R6070,R6071,R6072	NF CARBON R	R25J-82	415478204	
R6073,R6074	NF CARBON R	R25J-150	415471514	
R6075,R6076	NF CARBON R	R25J-220	415472214	
R6080,R6081,R6082	CARBON R	R25J-0.22	415472294	
R6083,R6084	CARBON R	R25J-0.22	415472294	
R6085,R6086	CARBON R	R25J-0.22	415472294	
R6090,R6091,R6092	CARBON R	R25J-0.22	415472294	
R6093,R6094	CARBON R	R25J-0.22	415472294	
R6095,R6096	CARBON R	R25J-0.22	415472294	
R6100,R6101,R6102	METAL PR	MPR5W+5W 0R22 or	4000233 or	
R6103,R6104	METAL PR	RGC55 0.22 or	4000132 or	
R6105,R6106	METAL PR	RF-5EGKR22	4000201	
R6120,R6121,R6122	NF CARBON R	R25J-2.2	415470224	
R6123,R6124	NF CARBON R	R25J-2.2	415470224	
R6125,R6126	NF CARBON R	R25J-2.2	415470224	
R6130,R6131,R6132	METAL R	RNU1WCJ-8.2	453630824	
R6133,R6134	METAL R	RNU1WCJ-8.2	453630824	
R6135,R6136	METAL R	RNU1WCJ-8.2	453630824	
R6140,R6141,R6142	CARBON R	R16J-22K	417342234	
R6143,R6144	CARBON R	R16J-22K	417342234	
R6145,R6146	CARBON R	R16J-22K	417342234	
R6150,R6151,R6152	CARBON R	R16J-12K	417341234	
R6153,R6154	CARBON R	R16J-12K	417341234	
R6155,R6156	CARBON R	R16J-12K	417341234	
R6160,R6161,R6162	CARBON R	R16J-33K	417343334	
R6163,R6164	CARBON R	R16J-33K	417343334	
R6165,R6166	CARBON R	R16J-33K	417343334	
R6180,R6181	METAL O R	RS1/2WBJ-390	443523914	
R6190,R6191,R6192	CARBON R	R16J-47K	417344734	
R6193,R6194	CARBON R	R16J-47K	417344734	
R6195,R6196	CARBON R	R16J-47K	417344734	
R6197	METAL R	RNU1/2WCJ-0.22	453532294	
R6210,R6211,R6212	CARBON R	R16J-47K	417344734	
R6213,R6214	CARBON R	R16J-47K	417344734	
R6215,R6216	CARBON R	R16J-47K	417344734	
R6240,R6241,R6242	CARBON R	R16J-220K	417342244	
R6243,R6244	CARBON R	R16J-220K	417342244	
R6245,R6246	CARBON R	R16J-220K	417342244	
R6701	C-CARBON R	RN72K1J-223JE	435032234R1	
R6704,R6903	C-CARBON R	RN72K1J-473JE	435034734R1	
R6705,R6710	C-CARBON R	RN72K1J-183JE	435031834R1	
R6706	C-CARBON R	RN72K1J-224JE	435032244R1	
R6708	C-CARBON R	RN72K1J-333JE	435033334R1	

R6709	C-CARBON R	RN72K1J-562JE	435035624R1	
R6902	C-CARBON R	RN72K1J-102JE	435031024R1	
RL3201,RL3202	RELAY	NRL-2P2A-DC4.5-173 or	25065658 or	
	RELAY	NPL-2P1A-DC4.5-169	25065645	
RL6901,RL6902	RELAY	NRL-1P10A-DC12-140 or	25065584 or	
	RELAY	NRL-1P10A-DC12-143	25065588	
F6901A,F6901B	FUSE HOLDER	SN5051	250113	!
F6902A,F6902B	FUSE HOLDER	SN5051	250113	!
P3001	PIN JACK	NPJ-2PDWR558 or	25045776 or	
	PIN JACK	NPJ-2PDBL185	25045333	
P3002,P3003	PIN JACK	NPJ-6PDWWWR561 or	25045779 or	
	PIN JACK	NPJ-6PDBL159	25045300	
P3004	PIN JACK	NPJ-4PDWWRR624 or	25045845 or	
	PIN JACK	NPJ-4PDBL162	25045303	
P3005	PIN JACK	NPJ-6PDWLGREP562 or	25045780 or	
	PIN JACK	NPJ-6PWRLGGP493	25045697	
P3006,P3009	PIN JACK	NPJ-2PDNT521 or	25045733 or	
	PIN JACK	NPJ-2PDNT627	25045848	
P3007	PIN JACK	NPJ-2PDWR558 or	25045776 or	
	PIN JACK	NPJ-2PDBL185	25045333	
P3008	PIN JACK	NPJ-6PDWLGREP562 or	25045780 or	
	PIN JACK	NPJ-6PWRLGGP493	25045697	
JL6006B,JL6200B	SOCKET	NSCT-5P97	25050269	
JL6200A	WIRE HOL	NSCT-5P896	25051109	
JL6600A	WIRE HOL	NSCT-7P898	25051111	
JL6603A	WIRE HOL	NSCT-9P900	25051113	
JL703A	WIRE HOL	NSCT-3P874	25051087	
P5004B	SOCKET AS	NSAS-26P1494	2009990954UL	
P3101A	PLUG	NPLG-15P0970	25056020	
P3102A	PLUG	NPLG-8P0963	25056013	
P3103A,P3104A	PLUG	NPLG-17P0972	25056022	
P3105A	PLUG	NPLG-17P0972	25056022	
P6000A,P6001A	PLUG	NPLG-5P0960	25056010	
P6002A,P6003A	PLUG	NPLG-5P0960	25056010	
P6004A,P6005A	PLUG	NPLG-5P0960	25056010	
P6080,P6081,P6082	PLUG	NPLG-2P29	25055038	
P6083,P6084	PLUG	NPLG-2P29	25055038	
P6085,P6086	PLUG	NPLG-2P29	25055038	
P6952A	PLUG	NPLG-10P157	25055173	
P6380	RETAINER	(PTH) or	27141884-1 or	
	RETAINER	(PTH)	27141884	
P6911A	RETAINER	(BUS-D)	27141860	
Q3505A	HEAT SINK	RAD-165	27160500	
D6901A	HEAT SINK	RAD-164	27160499	
P6800	WS CLAMP	CB-71683(L=50)	260261	
D6901B,D6903B	SCREW	3P+10FN(3BC)	82143010GR	
Q3505B,Q3506B	SCREW	3P+10FN(3BC)	82143010GR	
Q3507B,Q3508B	SCREW	3P+10FN(3BC)	82143010GR	
XM RADIO PC BOARD (NARF-8688-1A) North American models				
CIRCUIT NO.	PART NAME	DESCRIPTION	PART NO.	REMARKS
Q7001	IC	M30281FAHP	222W0041R3	
Q7002	IC	TC74VHC541FT(EKJ) or	22274541E1R2TO or	
	IC	TC74VHC541FT or	22274541ER2TO or	
	IC	SN74AHC541PWR	22274541IR2TI	
Q7003	IC	TC74HCT7007AF	222740077R2TO	
Q7004	IC(REGULATOR)	TA48033AF(TE16L, NQ) or	22278033DR2T or	
	IC(REGULATOR)	NJM2391DL1-33 or	22278033DR2JR or	
	IC(REGULATOR)	BA33BC0FP	22278033DR2RH	
Q7101	IC	F2602-01	22242266R2	
Q7102	IC	AK4384ET	22242280R2	
Q7103	IC	NE5532APSR	22242283R2	
Q7104	IC	MAX1930ESA or	22242279R2 or	
	IC	TPS2011ADR	22242273R2	
Q7105	IC(REGULATOR)	78L05(NJM78L05UA)	222780053R2JR	
D7001	ZENER D	UDZS5.1B or	224550510R2 or	
	ZENER D	HZU5.1B	224660514R2	

X7001	CERA LOCK	CSTCW2000MX01	3010342R2	
X7101	CRYSTAL	DSX840GA 45.1584MHz	3010420R2	
L7001,L7104,L7105	CHOKE COIL	NCH-1471 or	231237K022R2 or	
	CHOKE COIL	NCH-1587-022K	233533K022R2	
L7101,L7102	CHOKE COIL	BLM21PG221SN1	230949R2	
L7103	EMIFIL	BK1608LM182-T	230958R1	
C7001,C7002,C7004	C-CERA C	CK725F1E-104Z1	332161040R1	
C7003,C7111,C7132	VR C	CE04W16V-100M(VR)	394641017	
C7005,C7006,C7101	C-CERA C	CK725F1E-104Z1	332161040R1	
C7007,C7123	VR C	CE04W6.3V-470M(VR)	394624717	
C7102,C7119	C-CERA C	CK725B1H-102K1	332101025R1	
C7103,C7104,C7105	C-CERA C	CK725F1E-104Z1	332161040R1	
C7106,C7114,C7115	C-CERA C	CK725F1E-104Z1	332161040R1	
C7112	C-CERA C	CC725CH1H-040C1	342100401R1	
C7113	C-CERA C	CC725CH1H-080D1	342100802R1	
C7116,C7118,C7120	C-CERA C	CK725F1E-104Z1	332161040R1	
C7121,C7124,C7125	VX C	CE04W50V-10M(VX)	393381007	
C7122,C7134,C7135	C-CERA C	CK725F1E-104Z1	332161040R1	
C7126,C7127	C-CERA C	CC725CH1H-821J1	342108214R1	
C7128,C7129	C-CERA C	CC725CH1H-821J1	342108214R1	
C7130,C7131	VX C	CE04W50V-10M(VX)	393381007	
C7133,C7136	VR C	CE04W16V-100M(VR)	394641017	
C7137	C-CERA C	CK725F1E-104Z1	332161040R1	
R7001,R7003,R7005	C-CARBON R	RN72K1J-102JE	435031024R1	
R7002,R7004,R7032	C-CARBON R	RN72K1J-103JE	435031034R1	
R7006,R7007,R7008	C-CARBON R	RN72K1J-102JE	435031024R1	
R7009,R7014,R7021	C-CARBON R	RN72K1J-102JE	435031024R1	
R7010,R7011,R7012	C-CARBON R	RN72K1J-221JE	435032214R1	
R7013,R7017,R7018	C-CARBON R	RN72K1J-221JE	435032214R1	
R7022,R7023,R7024	C-CARBON R	RN72K1J-102JE	435031024R1	
R7025	C-CARBON R	RN72K1J-221JE	435032214R1	
R7101,R7102,R7103	C-CARBON R	RN72K1J-104JE	435031044R1	
R7104,R7105	C-CARBON R	RN72K1J-104JE	435031044R1	
R7111,R7112	C-CARBON R	RN72K1J-102JE	435031024R1	
R7113,R7114,R7117	C-CARBON R	RN72K1J-101JE	435031014R1	
R7115	C-CARBON R	RN72K1J-681JE	435036814R1	
R7116	C-CARBON R	RN72K1J-105JE	435031054R1	
R7118,R7119,R7120	C-CARBON R	RN72K1J-331JE	435033314R1	
R7121,R7126	C-CARBON R	RN72K1J-000JE	435030004R1	
R7127,R7128	C-CARBON R	RN72K1J-000JE	435030004R1	
R7130,R7131,R7132	C-CARBON R	RN72K1J-222JE	435032224R1	
R7133,R7136,R7137	C-CARBON R	RN72K1J-222JE	435032224R1	
R7134,R7135	C-CARBON R	RN72K1J-332JE	435033324R1	
R7138,R7139	C-CARBON R	RN72K1J-220JE	435032204R1	
R7140,R7141	C-CARBON R	RN72K1J-220JE	435032204R1	
R7142,R7143	C-CARBON R	RN72K1J-104JE	435031044R1	
P7001A	SOCKET	NSCT-9P2400	25052503	
P7102	SOCKET	CAM-C16	25053104R2	
P710B	SOCKET	NSCT-13P2193	25052296	

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